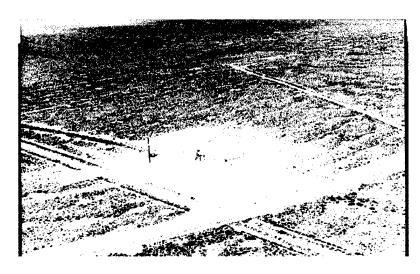
Sampling Results for AEC Phase I Training Ordnance Emission Characterization

Volume II—Summary Report,
Appendix II-A—Emission Factor Spreadsheets,
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Calibration Data, and
Appendix II-K—Letters of Instruction

March 1999



Prepared for:

Approved for Public Release
Distribution Unlimited

U.S. Army Dugway Proving Ground Dugway, Utah





SAMPLING RESULTS FOR AEC PHASE I TRAINING ORDNANCE EMISSION CHARACTERIZATION

VOLUME II—SUMMARY REPORT,
APPENDIX II-A—EMISSION FACTOR SPREADSHEETS,
APPENDIX II-B—DILUTION CORRECTION FACTOR DATA,
APPENDIX II-C—TSP/PM10 DATA RESULTS,
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APPENDIX II-I—CEM DATA RESULTS,
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CALIBRATION DATA, AND
APPENDIX II-K—LETTERS OF INSTRUCTION

Prepared for: U.S. Army Dugway Proving Ground Dugway, Utah

Prepared by:
Radian International LLC
1093 Commerce Park Drive, Suite 100
Oak Ridge, Tennessee 37830
Doc #F9806181.MW97

APPENDIX II-A. EMISSION FACTOR SPREADSHEETS

SIMULATOR BOOBY TRAP FLASH M117

TABLE A-1. AEC MUNITION ITEM INPUT DATA SHEET (28 MARCH 1998) Munition Item: Booby Trap Flash Created by: Radian International LLC

	1
No. of Runs =	1 1
110. 01 110110 -	

Sample Volumes:	Run	No. 1	Run	No. 2	Run I	No. 3	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(ft³)
TSP	708.9	851.3	NA	NA	NA	NA	780.07
PM ₁₀	310.4	199.9	NA	NA	NA	NA	255.16
Metals	708.9	851.3	NA	NA	NA	NA	780.07
VOCs	NA						
SVOCs	83.8	73.2	NA	NA	NA	NA	78.51
HCI/CI₂	25.6	26.7	NA	NA	NA	NA	26.16
Energetics	NA						
Dioxin/Furan	100.5	82.0	NA	NA	NA	NA	91.23
Residue	NA						
CEM	NA						

Sample Volumes:	Run	No. 1	Run	No. 2	Run	No. 3	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(mL)
HCI/CI ₂ (H ₂ SO ₄)	41.5	38.0	NA	NA	NA	NA	39.75
HCI/CI₂ (NaOH)	41.0	41.0	NA	NA	NA	NA	41.00

Sample Weight Gain:	Run	No. 1	Run	No. 2	Run	No. 3	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(g)
TSP	0.6549	0.6869	NA	NA	NA	NA	0.6709
PM ₁₀	0.3199	0.3557	NA	NA	NA	NA	0.3378

Dilution Correction Factors:	Run No. 1	Run No. 2	Run No. 3	Average
TSP	0.8281	NA	NA	0.8281
PM ₁₀	0.9259	NA	NA	0.9259
Metals	0.8281	NA	NA	0.8281
VOCs	0.9153	NA	NA	0.9153
SVOCs	0.8281	NA	NA	0.8281
HCI/CI ₂	0.8281	NA	NA	0.8281
Energetics	NA	NA	NA	NA
Dioxin/Furan	0.8281	NA	NA	0.8281
Residue	NA	NA	NA	NA
CEM	0.8281	NA	NA	0.8281

	Run No. 1	Run No. 2	Run No. 3	Average
Initial Plume Volume (m³)	1026.43	NA	NA	1026.43
Net Explosive Weight (g)	101.29	NA	NA	101.29

TABLE A-2. AEC BACKGROUND INPUT DATA SHEET (28 MARCH 1998)

Munition Item: Booby Trap Flash Created by: Radian International LLC

No. of Runs = 1

Sample Volumes:	BT - Bac	kground	Reagei	nt Blank	Field	Blank	Average
a de la companya de	Train A	Train B	Train A	Train B	Train A	Train B	(ft³)
TSP	1497.2	NA	NA	NA	NA	NA	1497.20
PM ₁₀	987.9	NA	NA	NA	NA	NA	987.90
Metals	1497.2	NA	NA	NA	NA	NA	1497.20
VOCs	NA	NA	NA	NA	NA	NA	NA
SVOCs	119.6	NA	NA	NA	NA	NA	119.60
HCI/CI₂	28.2	NA	NA	NA	NA	NA	28.16
Energetics	NA	NA	NA	NA	NA	NA	NA
Dioxin/Furan	150.2	NA	NA	NA	NA	NA	150.20
Residue	NA	NA	NA	NA	NA	NA	NA
CEM	NA	NA	NA	NA	NA	NA	NA

Sample Volumes:	BT - Bac	kground	Reager	nt Blank	Field	Blank	Average
with the transfer of the second	Train A	Train B	Train A	Train B	Train A	Train B	(mL)
HCI/Cl ₂ (H ₂ SO ₄)	NA	NA	107.2	NA	45.3	NA	NA
HCI/Cl ₂ (NaOH)	NA	NA	92.0	NA	41.5	NA	NA
HCI/CI₂ (H₂O)	NA	NA	100.0	NA	NA	NA	NA

Sample Weight Gain:	BT - Bac	kground	Reager	nt Blank	Field	Blank	Average
k-1	Train A	Train B	Train A	Train B	Train A	Train B	(g)
TSP	0.0035	NA	-0.0026	NA	-0.0037	NA	0.0035
PM ₁₀	0.0032	NA	-0.0002	NA	-0.0029	NA	0.0032

TABLE A-3. AEC - TSP, PM, HCUCI, DIOXIN/FURAN, CO, CO, NOX, SO, AND METALS DATA EVALUATION FOR BOOBY TRAP FLASH TEST (28 MARCH 1998)

	Average Concentration •	Average Concentration -	Background - Concentration,	Average Maximum Detection Limit - Concentration,	Average Minimum Detection Limit - Concentration,	Background Evaluation	Minimum Detection Limit Evaluation	Background Evaluation	Minimum Detection Limit Evaluation
Сотрония	Run 1, mg/m²	Run 1, mg/m³	mg/m³	mg/m³	mg/m ^a	Criteria	Criteria	Notes	Notes
Particulate	10100	10100	00 1110	2		04.020	90 00	•	
181	3.050E+01	3.0505+01	8.255E-02	QV	בַּיִּ	3/0.19	30.01	<	
PM ₁₀	3.639E+01	3.639E+01	1.144E-01	QN	2	318.16	10.00	٧	<
Hydrogen Chloride (HCIVChlorine (Cl.)	2	4	2	2000	10000	9	2		<u> </u>
2	ON LEGIT	ON LEGIT	00 100 0	0.2215-02	9.103E-04	ND 45 64	70,000	L	_ ▼
	4.16/E-02	4.16/5-02	Z.508E-03	1.89UE-US	1.303E-04	10.01	203.94		
Dioxin/Furan									
Dioxin TEQ (a)	4.983E-10	4.983E-10	1.246E-10	QN	QN	4.00	10.00	၁	Ą
Continuous Emissions Monitoring (CEM) System					!				
Carbon Monoxide (CO)	7.180E-01	7.180E-01	1.403E-01	QN	Q	5.12	10.00	8	V.
Nitrogen Oxide (NOx)	4.954E-01	4.954E-01	1.860E-02	QN	QQ	26.63	10.00	٨	V
HCI	-4.968E-02	-4.968E-02	-3.951E-02	Q	QQ	1.26	10.00	٥	V
Carbon Dioxide (CO ₂)	7.081E+02	7.081E+02	7.099E+02	ND	QN	1.00	10.00	F	¥
Sulfur Dioxide (SO ₂)	4.233E+00	4.233E+00	1.598E-03	QN	QN	2649.26	10.00	А	Y
Particulate-phase Metals									
Aluminum	8.785E-02	8.785E-02	NA (b)	2.011E-03	1.995E-03	NA (b)	44.03	NA (b)	¥
Antimony	8.363E+00	8.363E+00	NA (b)	1.415E-04	1.406E-04	NA (b)	59473.27	NA (b)	٧
Arsenic	1.668E-02	1.668E-02	NA (b)	9.446E-05	9.355E-05	NA (b)	178.30	NA (b)	Ą
Barium	1.406E-03	1.406E-03	NA (b)	9.051E-06	8.990E-06	NA (b)	156.40	NA (b)	٨
Beryllium	QN	QN	NA (b)	4.465E-05	4.434E-05	NA (b)	QN	NA (b)	ட
Cadmium	6.546E-05	6.546E-05	NA (b)	1.181E-05	1.172E-05	NA (b)	5.58	NA (b)	8
Chromium	1.415E-03	1.415E-03	NA (b)	2.360E-05	2.342E-05	NA (b)	60.41	NA (b)	V
Cobalt	8.600E-05	8.600E-05	NA (b)	2.278E-05	2.263E-05	NA (b)	3.80	NA (b)	ပ
Copper	1.458E-02	1.458E-02	NA (b)	1.027E-04	1.021E-04	NA (b)	142.90	NA (b)	V
Lead	2.167E-02	2.167E-02	NA (b)	9.355E-05	9.294E-05	NA (b)	233.20	NA (b)	V
Magnesium	1.819E+00	1.819E+00	NA (b)	1.798E-04	1.786E-04	NA (b)	10187.48	NA (b)	٨
Manganese	3.955E-03	3.955E-03	NA (b)	8.565E-06	8.504E-06	NA (b)	465.01	NA (b)	٧
Nickel	2.455E-04	2.455E-04	NA (b)	4.890E-05	4.860E-05	NA (b)	5.05	NA (b)	В
Phosphorus	2.264E-01	2.264E-01	NA (b)	2.263E-04	2.245E-04	NA (b)	1008.55	NA (b)	Y
Selenium	1.798E-04	1.798E-04	NA (b)	8.565E-05	8.504E-05	NA (b)	2.11	NA (b)	ပ်
Silver	3.543E-04	3.543E-04	NA (b)	3.493E-05	3.462E-05	NA (b)	10.23	NA (b)	A
Thallium	ON	Q	NA (b)	1.349E-04	1.336E-04	NA (b)	QN	NA (b)	L
Zinc	9.399E-03	9.399E-03	NA (b)	1.254E-04	1.245E-04	NA (b)	75.47	NA (b)	٧
Mercury	ND	ND	NA (b)	0.000E+00	0.000E+00	NA (b)	ON	NA (D)	_

a Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD

Insufficient material to analyze

A = Identified as a contaminant (greater than or equal to 10 times background or minimum MQL)

B = Likely contaminant (less than 10 and greater than or equal to 5 times background or minimum MQL)

C = Probable contaminant (less than 5 and greater than or equal to 2 times background or minimum MQL)

Massured, but accuracy or presence questionable (less than 2 and greater than or equal to 1 times background or minimum MQL)

F = Not considered a contaminant (less than 1 times background or minimum MQL)

TABLE A-4. AEC - TSP, PM₁₀, HCUCI₃, DIOXIN/FURAN, CO, CO₅, NO_X, SO₅, AND METALS RUN NO. 1 DATA FOR BOOBY TRAP FLASH TEST (28 MARCH 1998)

Company Company Contenting Contentin							1. 0. WA		The Book of the			
Part			Average	Average	Background -	Background Corrected	Dilution	Corrected		Sample Total		Corrected
Comparison Com	Compound	Molecular Weight	Concentration - Run 1, ppbv	Concentration - Run 1, mg/m³	Concentration, mg/m ³	Concentration - Run 1, mg/m³	Correction Factor (a), %	Concentration - Run 1, mg/m³	Initial Plume Volume, ft³	Material - Run 1, lb	Number of Items	Factor - Run 1, Ib/item
1. 1. 1. 1. 1. 1. 1. 1.												
Chicago Chic	Particulate											
Particle (PLCI)/Chicherine (Cb.) Particle (PLCI	TSP		•	3.056E+01	8.255E-02	3.048E+01	0.8281	3.681E+01	36,248	8.329E-02	88	2.872E-03
Comparison Com	PM ₁₀		•	3.639E+01	1.144E-01	3.628E+01	0.9259	3.918E+01	36,248	8.867E-02	29	3.058E-03
No.												
14 12 14 14	Hydrogen Chloride (HCI)/Chlorine (CL)											
WITH CONTRICTORY (CEM) System 4,167E-02 2,506E-03 3,16E-02 0,8281 4,728E-02 36,248 1,107E-04 WITH CONTROL T. 1 1,167E-02 2,506E-03 3,77E-10 0,8281 4,728E-02 36,248 1,107E-12 CONDER (NO.X) 4 2,888E-10 1,246E-10 3,77E-10 0,8281 4,513E-10 36,248 1,07E-12 Oxide (NO.X) 4 2,888.861 7,180E-01 1,406E-01 3,77E-01 0,8281 4,513E-10 36,248 1,07E-02 Oxide (NO.X) 4 2,886.834.00 1,406E-02 4,776E-01 0,8281 N.D 36,248 1,07E-02 Oxide (NO.2) 4 1,868.754.00 1,736E-02 1,776E-02 1,776E-02 0,8281 N.D 36,248 1,136E-02 Oxide (SO.2) 4 1,868.754.00 1,736E-02	HCI (b)	36	Q.	Q	Q	Q	0.8281	Q	36,248	Q	29	Q
Control Cont	Cl ₂ (b)	71	14.128	4.167E-02	2.508E-03	3.916E-02	0.8281	4.729E-02	36,248	1.070E-04	53	3.690E-06
CONTRICTORY C. 4.980E-10 1.246E-10 3.737E-10 0.0281 4.513E-10 36,248 1.021E-12 Control (NO.) C. 5.246 7.180E-01 1.246E-10 3.737E-10 0.0281 4.513E-10 36,248 1.579E-03 Oxide (NO.) 28 2.88.861 4.994E-01 1.800E-02 4.788E-01 0.0281 N.D 36,248 1.579E-03 Oxide (NO.) 38 2.83171 4.4 3966-02 7.788E-01 0.0281 N.D 36,248 N.D Oxide (NO.) 38 2.83171 4.4 3966-02 7.788E-01 0.0281 N.D 36,248 N.D Oxide (NO.) 38 2.83171 4.4 3966-02 7.788E-01 7.187E-02 0.0281 N.D 36,248 N.D Inchestic (NO.) 44 3868/35-400 1.288E-02 7.181E-02 7.181E-02 0.0281 1.158E-02 1.158E-02 Inchestic (NO.) 44 3868/35-400 1.288E-02 7.181E-02 0.0281 1.158E-02 1.158E-02	Divoloting a											
Oxide (ICQ) 28 616.384 7.180E-01 1.400E-01 1.400E-01 1.400E-01 1.400E-01 1.400E-01 0.6281 6.97E-01 36.248 1.579E-03 Oxide (ICQ) 28 3.581E-02 3.77E-01 0.6281 5.77E-01 36.248 1.579E-03 Dixide (ICQ) 36 -3.81F-1 4.598E-02 -3.81F-02 -3.81F-03 0.6281 ND 36.248 ND Dixide (ICQ) 44 3.86835.400 7.081E-02 -3.81F-02 0.6281 ND 36.248 ND Dixide (ICQ) 64 1.5887.73 4.233E-02 -3.81F-02 0.6281 ND 36.248 ND Implication 4 3.868.54.00 7.081E-02 7.31F-03 0.6281 ND 36.248 ND Implication 4 3.868.54.00 7.081E-02 -3.81F-03 0.6281 1.108E-03 36.248 1.106E-03 1 4 3.868.54.00 7.081E-02 -3.81F-03 0.6281 1.108E-03 36.248 1.10E-03	Dioxin TEO (c)			4.983E-10	1.246E-10	3.737E-10	0.8281	4.513E-10	36.248	1.021E-12	58	3.522E-14
Quale Emissions Monitoring (CEM) System 616.384 7.180E-01 1.470E-01 6.777E-01 0.8281 6.576E-01 36.248 1.570E-02 Androllocing (CD) 46 258.681 4.94E-01 1.800E-02 4.780E-01 0.6281 ND 36.248 1.570E-02 Androllocing (CD) 46 258.681 4.94E-01 1.800E-02 4.780E-01 0.6281 ND 36.248 1.500E-02 Joxide (CO) 44 366.285.400 7.708E-02 7.107E-02 0.6281 ND 36.248 ND Joxide (CO) 44 368635.400 7.09E-02 7.308E-02 7.107E-02 0.6281 1.106E-01 36.248 1.106E-02 Androll (CO) 44 1589.753 4.233E-00 1.589E-02 7.31E-00 0.6281 1.106E-01 36.248 1.156E-02 Androll (CO) 44 368E-02 4.231E-00 1.80E-02 0.8281 1.106E-01 36.248 1.156E-02 Androll (CO) 45 45 45 45 45 46 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>												
Volume (CO) 28 6 16 884 7 180E-01 1 100E-01 5 777E-01 0 8081 6 575E-01 3 5248 1 579E-03 Oxide (NOx) 36 -33.77 4 258.66-12 -3.55E-02 -1.077E-02 0 8281 5 757E-01 3 6248 1 579E-03 Dixode (CO ₂) 44 258.66-12 -3.55E-02 -1.077E-02 0 8281 ND 3 6248 1 570E-03 Dixode (CO ₂) 44 386355.400 7 708E-02 -1.077E-02 0 8281 5 757E-01 3 6248 1 50E-02 Note (CO ₂) 64 1589753 4 233E+00 1.588E-02 -1.617E-00 0 8281 1.09E-01 3 6248 1.156E-02 Note (CO ₂) 64 1589753 4 233E+00 1.588E-02 -1.617E-01 0 8281 1.156E-02 3 6248 1.156E-02 Note (CO ₂) 15 15 15 15 15 15 15 15 15 15 17 17 17 17 17 17 17 17 17	Continuous Emissions Monitoring (CEM) S	System										
Oxide (NOy) 46 258.61 4.945-E-01 1.896-E-02 -1.778E-01 0.0281 ND 36.248 1.30E-02 Dioxide (CO ₂) 44 36.486-10 4.948-E-02 -1.0175-02 -1.0175-02 0.0281 ND 36.248 ND Novide (CO ₂) 44 386835,400 7.0815-02 7.0955-02 -1.5135-00 0.0281 ND 36,248 ND Novide (CO ₂) 44 1589.753 4.2335-00 1.598E-02 -1.5135-00 0.0281 1.095-00 36,248 ND Novide (SO ₂) 44 1589.753 4.2335-00 1.588E-02 0.0281 1.096E-00 36,248 1.106E-02 Novide (SO ₂) 45 1.835E-02 1.68E-02 0.0281 1.006E-01 36,248 1.106E-02 Novide (SO ₂) 45 1.835E-02 1.68E-02 0.0281 1.006E-01 36,248 1.106E-02 Novide (SO ₂) 45 1.835E-02 0.0281 1.106E-02 36,248 1.106E-02 Novide (SO ₂) 45<	Carbon Monoxide (CO)	28	616.384	7.180E-01	1.403E-01	5.777E-01	0.8281	6.976E-01	36,248	1.579E-03	29	5.444E-05
36 33171 4.9 BORE-02 3.9 STE-02 1.01 TE-02 0.0281 N.D 36.248 N.D N.D 44 386635.400 7.081E-02 7.089E-02 7.1812E-00 0.0281 5.109E-00 36.248 N.D N.D 12 1589.733 4.231E-02 7.389E-02 4.231E-02 0.0281 1.06E-01 36.248 1.16E-02 12 16.7844 8.785E-02 N.A (d) 8.785E-02 0.0281 1.06E-01 36.248 2.401E-04 12 137 0.247 1.405E-02 N.A (d) 1.405E-02 0.8281 1.00E-01 36.248 3.842E-05 137 0.247 1.405E-02 N.A (d) 1.405E-02 0.8281 1.00E-01 36.248 3.842E-05 137 0.247 1.405E-03 N.A (d) 1.405E-03 0.8281 1.00E-01 36.248 3.842E-05 138 139 N.D N.D N.A (d) 1.405E-03 0.8281 1.00E-01 36.248 3.86E-05 139 0.035 8.600E-05 N.A (d) 1.415E-03 0.8281 1.705E-03 36.248 3.86E-05 148 1.25 0.044 6.546E-03 N.A (d) 1.415E-03 0.8281 1.705E-03 36.248 3.86E-05 148 1.25 0.054 1.415E-03 N.A (d) 1.415E-03 0.8281 1.705E-03 36.248 3.86E-05 149 1.72 0.014 0.546E-03 N.A (d) 1.415E-03 0.8281 1.705E-03 36.248 3.86E-05 149 1.72 0.054 1.415E-03 N.A (d) 1.415E-03 0.8281 1.705E-03 36.248 4.912E-07 149 1.72 0.054 1.819E-03 N.A (d) 1.415E-03 0.8281 1.705E-03 36.248 3.86E-05 150 0.055 1.728 3.85E-03 N.A (d) 1.415E-03 0.8281 2.745E-04 3.85E-05 150 0.055 1.728E-03 0.8281 2.745E-04 3.85E-05 150 0.055 1.728E-03 N.A (d) 1.738E-04 0.8281 2.745E-04 3.85E-05 150 0.055 1.728E-03 N.A (d) 1.738E-04 0.8281 2.745E-04 3.85E-05 150 0.055 1.728E-03 N.A (d) 1.738E-04 0.8281 2.745E-04 3.85E-05 150 0.055 1.728E-03 N.A (d) 1.738E-04 0.8281 4.775E-03 3.854E-04 3.85E-05 150 0.073 3.543E-04 0.8281	Nitrogen Oxide (NOx)	46	258.861	4.954E-01	1.860E-02	4.768E-01	0.8281	5.757E-01	36,248	1.303E-03	59	4.492E-05
Mode (SO ₂) 44 3866354 400 7,098 E+02 7,109 E+02 -1,813 E+00 0,8281 ND 36,246 ND Axide (SO ₂) 64 1589 753 4,233 E+00 1,598 E+03 4,231 E+00 0,8281 5,109 E+00 36,248 1,116 E+02 Average (SO ₂) Average (SO ₂) Average (SO ₂) NA (a) 8,785 E+02 0,8281 1,106 E+01 36,248 2,401 E-04 Average (SO ₂) Average (SO ₂) NA (a) 8,785 E+02 0,8281 1,001 E+01 36,248 2,401 E-04 Average (SO ₂) Average (SO ₂) NA (a) 1,688 E-02 0,8281 1,001 E+01 36,248 2,401 E-04 Average (SO ₂) Average (SO ₂) Average (SO ₂) NA (a) 1,688 E-02 0,8281 1,001 E-01 36,248 1,288 E-02 Average (SO ₂) Average (HCI (b)	36	-33.171	-4.968E-02	-3.951E-02	-1.017E-02	0.8281	QN	36,248	QN	53	ON
1589.753 4.233E+00 1.588E-03 4.231E+00 0.8281 1.061E+01 36,248 1.156E-02 1.156E-02 1.156E-03	Carbon Dioxide (CO ₂)	44	386835.400	7.081E+02	7.099E+02	-1.813E+00	0.8281	QN	36,248	QN	58	QN
trap place Metals 27 78.218 8.785E-02 NA (d) 8.785E-02 0.8281 1.061E-01 36,248 2.401E-04 n 122 1647.894 8.363E+02 0.8281 1.010E+01 36,248 2.401E-04 n 122 168E-02 1.688E-02 0.8281 1.010E+01 36,248 2.401E-02 n 137 0.247 1.688E-02 0.8281 1.010E+01 36,248 2.401E-02 n 137 0.247 1.408E-02 0.8281 1.001E+01 36,248 2.401E-02 n 0 0.247 1.408E-02 0.8281 1.508E-02 38,248-02 n 0 0.044 6.540E-05 0.8281 1.508E-03 38,248-0 n 0 0.044 6.540E-05 0.8281 1.708E-03 38,248-0 n 0 0.035 8.600E-05 0.8281 1.708E-03 38,248 3.356E-05 n 0 0.035 8.600E-05 0.8281 1.708E-03	Sulfur Dioxide (SO ₂)	2	1589.753	4.233E+00	1.598E-03	4.231E+00	0.8281	5.109E+00	36,248	1.156E-02	29	3.987E-04
Table Tabl												
n 27 78,218 8,785E-02 NA (d) 8,785E-02 0.8281 1,061E-01 36,248 2,249E-02 r 12 1647,894 8,363E+00 NA (d) 1,68E-02 0.8281 1,010E+01 36,248 2,285E-02 r 75 5,346 1,668E-02 NA (d) 1,406E-03 0,8281 1,010E+01 36,248 2,285E-05 n 137 0,247 1,406E-03 NA (d) 1,406E-03 0,8281 1,698E-03 36,248 3,842E-06 n 10 0,024 1,406E-03 NA (d) 1,406E-03 0,8281 1,698E-03 36,248 3,842E-06 n 11 0,01 0,024 1,415E-03 NA (d) 1,415E-03 0,8281 1,708E-03 36,248 3,842E-06 m 52 0,654 1,415E-03 NA (d) 1,415E-03 0,8281 1,708E-03 36,248 3,82E-05 m 53 0,654 1,415E-03 NA (d) 1,468E-02 0,8281 1,708E-	Particulate-phase Metals											
// Transmister 122 1447.894 8.365E+00 NA (d) 8.363E+00 0.8281 1.010E+01 36.248 2.285E-02 1 75 6.346 1.688E-02 0.8281 2.014E-02 36.248 4.538E-05 1 0.247 1.688E-02 NA (d) 1.686E-02 0.8281 1.698E-03 36.248 4.538E-05 n 0.247 1.686E-02 NA (d) 1.668E-05 0.8281 1.698E-03 36.248 1.789E-07 n 112 0.014 6.546E-05 NA (d) 1.415E-03 0.8281 1.796E-03 36.248 1.789E-07 m 59 0.034 6.546E-05 NA (d) 1.458E-02 0.8281 1.701E-02 36.248 1.789E-07 m 59 0.0554 1.415E-03 NA (d) 1.458E-02 0.8281 1.701E-02 36.248 1.789E-05 mum 50 0.055 1.618E-02 NA (d) 1.458E-02 0.8281 1.7761E-02 36.248 1.789E-05 mum<	Aluminum	27	78.218	8.785E-02	NA (d)	8.785E-02	0.8281	1.061E-01	36,248	2.401E-04	53	8.279E-06
75 5.346 1.668E-02 NA (d) 1.668E-02 0.8281 2.014E-02 36.248 4.558E-05 n 1.37 0.247 1.406E-03 NA (d) 1.668E-03 0.8281 1.698E-03 36.248 3.842E-06 n 1.37 0.247 1.406E-03 NA (d) NB (d) 0.8281 7.905E-03 36.248 1.789E-07 n 1.12 0.014 6.546E-05 NA (d) 6.546E-03 0.8281 7.905E-03 36.248 1.789E-07 m 52 0.654 1.415E-03 NA (d) 6.546E-05 0.8281 1.708E-03 36.248 1.789E-07 m 52 0.654 1.415E-02 NA (d) 1.415E-03 0.8281 1.708E-04 36.248 1.789E-07 m 53 0.035 8.600E-05 NA (d) 2.167E-02 0.8281 2.197E-00 36.248 4.772E-03 m 54 1.728E-02 NA (d) 2.455E-04 0.8281 2.775E-03 36.248 4.972E-03 <	Antimony	122	1647.894	8.363E+00	NA (d)	8.363E+00	0.8281	1.010E+01	36,248	2.285E-02	29	7.881E-04
137 0.247 1406E-03 NA (d) 1406E-03 0.8281 1698E-03 36,248 3.842E-06 NA (d) NA (d) 0.8281 1.708E-05 36,248 1.708E-05 NA (d) 1.415E-03 0.8281 1.708E-05 36,248 1.708E-05 NA (d) 1.415E-03 0.8281 1.708E-05 36,248 3.805E-05 NA (d) 1.415E-03 0.8281 1.708E-04 36,248 3.805E-05 NA (d) 1.415E-03 0.8281 2.407E-02 36,248 4.972E-03 36,248 3.955E-05 NA (d) 3.955E-03 0.8281 2.407E-02 36,248 4.972E-03 36,248 3.955E-05 NA (d) 3.955E-03 0.8281 2.407E-03 36,248 3.952E-05 NA (d) 3.955E-04 0.8281 2.407E-03 36,248 3.952E-05 NA (d) 3.955E-04 0.8281 2.407E-03 36,248 3.93E-05 NA (d) 3.955E-04 0.8281 2.407E-03 36,248 3.93E-05 NA (d) 3.543E-04 0.8281 2.407E-04 36,248 3.93E-05 NA (d) 3.543E-04 0.8281 2.477E-04 36,248 3.93E-05 NA (d) 3.543E-04 0.8281 4.478E-04 36,248 3.93E-07 NA (d) 3.543E-04 0.8281 4.478E-04 36,248 3.93E-07 NA (d) 0.8281 1.135E-04 36,248 3.93E-07 NA (d) 0.8281 1.135E-04 36,248 36,248 ND NA (d) 0.8281 1.135E-04 36,248 36,248 ND ND NA (d) 0.8281 1.135E-04 36,248 36,248 ND ND ND ND 38,248 ND ND 36,248 ND ND 36,248 ND ND 36,248 ND ND 36,248 ND ND ND ND 36,248 ND ND 3	Arsenic	75	5.346	1.668E-02	NA (d)	1.668E-02	0.8281	2.014E-02	36,248	4.558E-05	53	1.572E-06
n 9 ND NA (d) ND O.02831 ND 36,248 ND n 112 0.014 6.546E-05 NA (d) 6.546E-05 0.8281 7.905E-05 36,248 1.789E-07 m 52 0.654 1.415E-03 NA (d) 1.415E-03 0.8281 1.708E-03 36,248 3.366E-05 m 59 0.035 8.600E-05 NA (d) 1.458E-02 0.8281 1.701E-02 36,248 1.789E-05 mm 2.477 1.458E-02 NA (d) 1.415E-02 0.8281 1.701E-02 36,248 4.702E-05 mm 2.477 1.458E-02 NA (d) 2.167E-02 0.8281 2.197E-02 36,248 4.702E-05 um 2.4 1.758 3.355E-03 NA (d) 2.167E-02 0.8281 2.197E-02 36,248 1.081E-05 see 55 0.100 2.355E-03 NA (d) 2.264E-01 0.8281 2.171E-02 36,248 4.972E-03 n	Barium	137	0.247	1.406E-03	NA (d)	1.406E-03	0.8281	1.698E-03	36,248	3.842E-06	29	1.325E-07
n 112 0.014 6.546E-05 NA (d) 6.546E-05 0.0281 7.905E-05 36,248 1.789E-07 m 52 0.654 1.415E-03 NA (d) 6.546E-05 0.0281 1.708E-03 36,248 1.789E-05 m 52 0.035 8.600E-05 NA (d) 1.415E-03 0.8281 1.708E-04 36,248 2.350E-07 m 2.07 2.517 1.456E-02 NA (d) 1.456E-02 0.8281 1.708E-04 36,248 5.326E-05 um 2.07 2.517 2.167E-02 NA (d) 1.415E-02 0.8281 2.175E-02 36,248 4.972E-03 um 2.43 1.728 3.955E-03 NA (d) 2.167E-02 0.8281 2.175E-02 36,248 4.972E-03 see 55 1.728 3.955E-03 NA (d) 2.455E-04 0.8281 2.775E-03 36,248 4.972E-03 n 79 0.055 1.798E-04 NA (d) 1.798E-04 0.8281 4.278E-04	Beryllium	9	ND	QV	NA (d)	QN	0.8281	2	36,248	Q	29	Q
m 52 0.654 1.415E-03 NA (d) 1.415E-03 0.6281 1.708E-03 36,248 3.6248 3.86E-06 59 0.035 8.600E-05 NA (d) 1.60E-05 0.8281 1.708E-02 36,248 2.350E-07 um 2.4 2.517 2.157 2.167E-02 NA (d) 2.167E-02 0.8281 2.197E+02 36,248 5.328E-05 um 2.4 1.822.297 1.819E+00 NA (d) 2.167E-02 0.8281 2.197E+02 36,248 5.923E-05 um 2.4 1.822.297 1.819E+00 NA (d) 2.457E-02 0.8281 2.197E+02 36,248 4.372E-03 see 55 1.728 3.955E-03 NA (d) 2.455E-04 0.8281 2.197E+00 36,248 6.108E-05 nus 59 0.100 2.455E-04 NA (d) 2.455E-04 0.8281 2.17E-02 36,248 6.108E-05 n 79 0.055 1.738E-04 NA (d) 0.8281 4.27E-01	Cadmium	112	0.014	6.546E-05	NA (d)	6.546E-05	0.8281	7.905E-05	36,248	1.789E-07	53	6.169E-09
1.038E-04 36,248 2,350E-07	Chromium	52	0.654	1.415E-03	NA (d)	1.415E-03	0.8281	1.708E-03	36,248	3.866E-06	29	1.333E-07
Main State	Cobalt	59	0.035	8.600E-05	NA (d)	8.600E-05	0.8281	1.038E-04	36,248	2.350E-07	59	8.103E-09
um 2.517 2.167E-02 NA (d) 2.167E-02 0.8281 2.617E-02 36,248 5.92E-05 see 24 1822.297 1.819E+00 NA (d) 1.619E+00 0.8281 2.197E+00 36,248 4.972E-03 see 55 1.728 3.955E-03 NA (d) 2.45E-04 0.8281 2.197E+00 36,248 4.972E-03 see 55 0.100 2.455E-04 NA (d) 2.455E-04 0.8281 2.946E-04 36,248 6.708E-05 n 79 0.055 1.798E-04 NA (d) 1.798E-04 0.8281 2.171E-04 36,248 6.186E-04 n 0.059 3.543E-04 NA (d) 1.798E-04 0.8281 2.171E-04 36,248 4.913E-07 n ND NA (d)	Copper	84	5.477	1.458E-02	NA (d)	1.458E-02	0.8281	1.761E-02	36,248	3.985E-05	53	1.374E-06
um 24 18322.97 1.819E+00 NA (d) 1.819E+00 0.8281 2.197E+00 36,248 4.972E-03 sse 55 1.728 3.95E-03 NA (d) 3.95E-03 0.8281 2.197E+00 36,248 4.972E-03 ms 55 1.728 3.95E-03 NA (d) 2.45E-04 0.8281 2.73E-03 36,248 6.708E-07 ns 59 0.100 2.455E-04 NA (d) 2.245E-04 0.8281 2.73E-04 6.186E-07 n 79 0.055 1.798E-04 NA (d) 1.798E-04 0.8281 2.171E-04 36,248 4.913E-07 n 0.079 3.543E-04 NA (d) 3.543E-04 0.8281 4.278E-04 36,248 9.82E-07 n 0.079 3.543E-04 NA (d) NA (d) 0.8281 ND 36,248 0.D n 0.079 3.543E-04 NA (d) 0.8281 0.8281 0.35E-04 36,248 0.D n 0.079 0.	Lead	207	2.517	2.167E-02	NA (d)	2.167E-02	0.8281	2.617E-02	36,248	5.923E-05	59	2.042E-06
See	Magnesium	24	1822.297	1.819E+00	NA (d)	1.819E+00	0.8281	2.197E+00	36,248	4.972E-03	29	1.714E-04
10.00 2.455E-04 NA (d) 2.455E-04 0.8281 2.964E-04 36,248 6.708E-07 (d) 2.264E-01 0.8281 2.734E-01 36,248 6.708E-07 (e) 2.264E-01 0.8281 2.734E-01 36,248 6.108E-04 (e) 2.264E-01 0.8281 2.734E-01 36,248 6.108E-04 (e) 2.264E-01 0.8281 2.734E-01 36,248 4.913E-07 (e) 204 ND NA (d) NA (d) ND 0.8281 1.35E-02 36,248 2.88E-07 (e) 204 ND NA (d) ND 0.8281 1.35E-02 36,248 2.88E-05 (e) 201 ND 36,248 ND ND 0.8281 ND 0	Manganese	55	1.728	3.955E-03	NA (d)	3.955E-03	0.8281	4.775E-03	36,248	1.081E-05	53	3.726E-07
nus 31 175.537 2.264E-01 NA (d) 2.264E-01 0.8281 2.734E-01 36,248 6.186E-04 6.186E-04 1 79 0.055 1,739E-04 NA (d) 1,798E-04 0.8281 2.171E-04 36,248 4,913E-07 108 0.079 3,543E-04 NA (d) 3,543E-04 0.8281 4,278E-04 36,248 4,913E-07 108 ND ND NA (d)	Nickel	59	0.100	2.455E-04	NA (d)	2.455E-04	0.8281	2.964E-04	36,248	6.708E-07	59	2.313E-08
1 79 0.055 1.798E-04 NA (d) 1.798E-04 0.8281 2.171E-04 36,248 4.913E-07 1.798E-04 0.8281 2.171E-04 36,248 4.913E-07 1.798E-04 0.8281 4.278E-04 36,248 9.682E-07 1.798E-04 0.8281 ND 36,248 1.135E-02 36,248 1.135E-02 1.135E-02 36,248 1.135E-02 1.135	Phosphorus	31	175.537	2.264E-01	NA (d)	2.264E-01	0.8281	2.734E-01	36,248	6.186E-04	29	2.133E-05
108 0.079 3.543E-04 NA (d) 3.543E-04 0.8281 4.278E-04 3.6248 9.682E-07 204 ND ND NA (d) ND 0.8281 ND 36,248 ND 6.6 3.476 9.399E-03 NA (d) 0.8281 1.13E-02 36,248 2.568E-05 ND ND ND NA (d) ND 0.8281 ND 36,248 ND	Selenium	79	0.055	1.798E-04	NA (d)	1.798E-04	0.8281	2.171E-04	36,248	4.913E-07	29	1.694E-08
204 ND ND (d) ND 0.8281 ND 36,248 ND 6.8281 1.135E-02 36,248 S.568E-05 ND ND 0.8281 ND 36,248 ND ND 0.8281 ND 36,248 ND ND 0.8281 ND 0.8	Silver	108	0.079	3.543E-04	NA (d)	3.543E-04	0.8281	4.278E-04	36,248	9.682E-07	59	3.339E-08
65 3.476 9.399E-03 0.8281 1.135E-02 36,248 2.568E-05 ND ND ND ND 0.8281 ND 36,248 ND ND 0.8281 ND 36,248 ND ND 0.8281 ND 36,248 ND	Thallium	204	ND	QN	NA (d)	ON	0.8281	Q	36,248	QN	29	Q
N ON 18280 ON 1838 ON	Zinc	65	3.476	9.399E-03	NA (d)	9.399E-03	0.8281	1.135E-02	36,248	2.568E-05	53	8.856E-07
	Mercury	201	QN	QN	NA (d)	QN	0.8281	ON	36,248	ON	29	QN

a Estimated from tracer data as presented in Volume IV. b HCI/Cl₂ levels were too low to be reliably measured.

c Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD. Presence questionable - reported at similar levels in samples and blanks.

d Insufficient material to analyze.

TABLE A-5. AEC - VOC DATA EVALUATION FOR BOOBY TRAP FLASH TEST (28 MARCH 1998)

Compound (a)	Average Concentration -	Average Concentration - Run 1, mg/m³	Average Background - Concentration, mg/m³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³	Background Evaluation Criteria	Minimum Detection Limit Evaluation Criteria	Background Evaluation Notes	Minimum Detection Limit Evaluation Notes
Total Normethane Hydrocarbons (TNMHC)									
ТИМНС	9.070E-02	9.070E-02	4.600E-02	1.000E-04	1.000E-04	1.97	907.00	٥	A
Volatile Organic Compounds (VOCs)									
Ethane	3.300E-03	3.300E-03	6.500E-03	1.000E-04	1.000E-04	0.51	33.00	ш	A
Ethylene	8.250E-03	8.250E-03	2.600E-03	1.000E-04	1.000E-04	3.17	82.50	၁	A
Acetylene	1.255E-02	1.255E-02	3.200E-03	1.000E-04	1.000E-04	3.92	125.50	O	4
Propane	1.300E-03	1.300E-03	2.600E-03	1.000E-04	1.000E-04	0.50	13.00	ш	۷.
Propene	2.100E-03	2.100E-03	3.100E-03	1.000E-04	1.000E-04	0.68	21.00	L	4 C
I-Butane B. Joseph	2.500E-04	2.500E-04	4.000E-04	1.000E-04	1.000E-04	0.00	2 00	- L	0
1-Dutene	4 500F-04	4 500F-04	1.300E-04	1 000F-04	1.000E-04	0.35	4.50	. L	0
1.3-Butadiene	9.000E-04	9.000E-04	2.000E-04	1.000E-04	1.000E-04	4.50	9.00	ပ	В
n-Butane	4.000E-04	4.000E-04	1.100E-03	1.000E-04	1.000E-04	0.36	4.00	Ь	၁
trans-2-Butene	1.200E-03	1.200E-03	2.000E-04	1.000E-04	1.000E-04	6.00	12.00	В	A
2,2-Dimethylpropane	QN	QN	QN	1.000E-04	1.000E-04	2	2	L I	<u>.</u>
cis-2-Butene	1.000E-04	1.000E-04	2.000E-04	1.000E-04	1.000E-04	0.50	1.00	<u>.</u> .	٥١
3-Methyl-1-butene	QN S	ON SOL	1.000E-04	1.000E-04	1.000E-04	25	200	١	_ a
I-Pentane	9.000E-04	9.000E-04	5.000E-04	1.000E-04	1.000E-04	00.1 CIM	00.5 CIV) u	o Lu
1-Pentene 2-Methyl-1-butene	2 2	2 2	3.000E-04	1.000E-04	1.000E-04	22	2		. L
n-Pentane	8.000E-04	8.000E-04	5.000E-04	1.000E-04	1.000E-04	1.60	8.00	٥	В
Isoprene	Q	QN	1.000E-04	1.000E-04	1.000E-04	ND	QN	Ŧ	ш.
trans-2-Pentene	QN	QN	1.000E-04	1.000E-04	1.000E-04	QN	QN	Ь	ட
cis-2-Pentene	Q	S	QN	1.000E-04	1.000E-04	Q	2	<u>.</u>	L
2-Methyl-2-butene	Q	Q	Q	1.000E-04	1.000E-04	Q	QN.	ı.	<u> </u>
2,2-Dimethylbutane	1.000E-04	1.000E-04	4.000E-04	1.000E-04	1.000E-04	0.25	9.5	L	ם ע
Cyclopentene	2 2	2 2		1.000E-04	1.000E-04	22	2 2	L	L
Grelonestane	2 2	Q CX	1 000F-04	1.000E-04	1 000E-04	2 2	2	. 4	. 4
2.3-Dimethylbutane	6.000E-04	6.000E-04	1.000E-04	1.000E-04	1.000E-04	6.00	9:00	В	В
cis-4-Methyl-2-pentene	QN	QN	QN	1.000E-04	1.000E-04	Q.	QN	F	Ŧ
2-Methylpentane	1.150E-03	1.150E-03	3.000E-04	1.000E-04	1.000E-04	3.83	11.50	၁	A
3-Methylpentane	8.500E-04	8.500E-04	1.000E-04	1.000E-04	1.000E-04	8.50	8.50	В	В
2-Methyl-1-pentene	QN	QN	QN	1.000E-04	1.000E-04	QN	Q	L.	L.
1-Hexene	QN	QN	Q	1.000E-04	1.000E-04	Q	2	u.	u.
n-Hexane	1.200E-03	1.200E-03	2.000E-04	1.000E-04	1.000E-04	0.00	12.00	8	۷ I
trans-2-Hexene	9	QN	Q	1.000E-04	1.000E-04	Q	2	ш	u_ (
2-Methyl-2-pentene	Q	QN	QN	1.000E-04	1.000E-04	2	2	щ	<u>.</u>
cis-2-Hexene	QN	Q	Q	1.000E-04	1.000E-04	Q	Q	<u> </u>	1 6
Methylcyclopentane	5.000E-04	5.000E-04	2.000E-04	1.000E-04	1.000E-04	2.50	5.00	ပ .	20.
2,4-Dimethylpentane	1,250E-03	1.250E-03	1,000E-04	1.000E-04	1,000E-04	12.50	12.50	∢	×

TABLE A-5. AEC - VOC DATA EVALUATION FOR BOOBY TRAP FLASH TEST (28 MARCH 1998)

mg/m³ mg/m³ Criteria Criteria Criteria Mose 1,000E-04 1,000E-04 0.75 3.00 F 1,000E-04 1,000E-04 4.00 4.00 C 1,000E-04 1,000E-04 1,000E-04 1.00 C 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1.00 C 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 C C 1,000E-04 1,000		Average Concentration -	Average Concentration -	Average Background - Concentration,	Average Maximum Detection Limit - Concentration,	Average Minimum Detection Limit - Concentration,	Background Evaluation	Minimum Detection Limit	Background	Minimum Detection Limit
Profection Control C	Compound (a)	Run 1, mg/m³	Run 1, mg/m³	mg/m³	mg/m³	mg/m²	Criteria	Criteria	Notes	Notes
Property Property	Benzene	4.750E-03	4.750E-03	7.000E-04	1.000E-04	1.000E-04	6.79	47.50	В	A
Provincement 4,000E-04 4,000E-04 1,000E-04 1,000E-04 1,100E-04 1	Cyclohexane	3.000E-04	3.000E-04	4.000E-04	1.000E-04	1.000E-04	0.75	3.00	Ь	ပ
1,000,000,000,000,000,000,000,000,000,0	2-Methylhexane	4.000E-04	4.000E-04	1.000E-04	1.000E-04	1.000E-04	4.00	4.00	၁	၁
Transference S.500E-04 S	2,3-Dimethylpentane	2.300E-03	2.300E-03	2.000E-04	1.000E-04	1.000E-04	11.50	23.00	A	A
and profitations 4 4,455 (2) 4 4,500 (2) 4 6,455 (2) 4 6,455 (2) 4 6,455 (2) 4 6,455 (2) 8 9,90 4 4,55 (2) B and profitations 4 0,000 (2) A 0,000 (3-Methylhexane	5.500E-04	5.500E-04	4.000E-04	1.000E-04	1.000E-04	1.38	5.50	۵	В
annichiativity desirente 4000E-04 4000E-04 1000E-04 1000E	2,2,4-Trimethylpentane	4.450E-03	4.450E-03	5.000E-04	1.000E-04	1.000E-04	8.90	44.50	8	¥
Trimply Figures 2000E-04 1000E-04 1	n-Heptane	4.000E-04	4.000E-04	2.000E-04	1.000E-04	1.000E-04	2.00	4.00	O	O
Opticity of the property of the propert	2,4,4-Trimethyl-1-pentene	ND	QN	QN	1.000E-04	1.000E-04	Q	9	ш	L
TrimethyLeparter 1000E-04 1000E-04 1000E-04 1000E 1000E-04 1000	Methylcyclohexane	2.000E-04	2.000E-04	1.000E-04	1.000E-04	1.000E-04	2.00	2.00	O	O
Participation 1,000E-04	2,4,4-Trimethyl-2-pentene	Ω	QN	QN	1.000E-04	1.000E-04	Q	S	ш	L
Participation Participatio	2,5-Dimethylhexane	3.000E-04	3.000E-04	QN	1.000E-04	1.000E-04	10.00	3.00	ď	O
interly/pertiante 9 0000E-04 9 0000E-04 9 000DE-04 9 000DE-04 9 000E-04 9 000E-04 9 000DE-04 9	2,4-Dimethylhexane	4.500E-04	4.500E-04	QN	1.000E-04	1.000E-04	10.00	4.50	¥	O
NODE-04 1,000E-04 1,000E	2,3,4-Trimethylpentane	9.000E-04	9.000E-04	1.000E-04	1.000E-04	1.000E-04	9.00	9.00	8	8
Horizone 4,000E-04 1,000E-04 1,000E-04 <th< td=""><td>Toluene</td><td>3.000E-03</td><td>3.000E-03</td><td>8.000E-04</td><td>1.000E-04</td><td>1.000E-04</td><td>3.75</td><td>30.00</td><td>O</td><td>A</td></th<>	Toluene	3.000E-03	3.000E-03	8.000E-04	1.000E-04	1.000E-04	3.75	30.00	O	A
No.	2,3-Dimethylhexane	4.000E-04	4.000E-04	ND	1.000E-04	1.000E-04	10.00	4.00	A	O
Provide	2-Methylheptane	2.500E-04	2.500E-04	QN	1.000E-04	1.000E-04	10.00	2.50	A	O
NO NO NO NO NO NO NO NO	3-Ethylhexane	Q	QN	Q	1.000E-04	1.000E-04	QN	QΝ	ட	LL.
Table Tabl	2,2-Dimethylheptane	Q	QN	ON	1.000E-04	1.000E-04	DN	QN	ш	L.
1,500E-04 1,50	2,2,4-Trimethylhexane	3.000E-04	3.000E-04	Q	1.000E-04	1.000E-04	10.00	3.00	A	ပ
Decide colored by co	n-Octane	1.500E-04	1.500E-04	1.000E-04	1.000E-04	1.000E-04	1.50	1.50	Δ	٥
A 000E-04 4,000E-04 4,000E-04 4,000E-04 1,000E-04 1,000E-04 <t< td=""><td>Ethylcyclohexane</td><td>QN</td><td>QN</td><td>Q</td><td>1.000E-04</td><td>1.000E-04</td><td>QN</td><td>QN</td><td>ட</td><td>L</td></t<>	Ethylcyclohexane	QN	QN	Q	1.000E-04	1.000E-04	QN	QN	ட	L
restance 9 000E-04 9 000E-04 9 000E-04 1 000E-04 <th< td=""><td>Ethylbenzene</td><td>4.000E-04</td><td>4.000E-04</td><td>2.000E-04</td><td>1.000E-04</td><td>1.000E-04</td><td>2.00</td><td>4.00</td><td>၁</td><td>O</td></th<>	Ethylbenzene	4.000E-04	4.000E-04	2.000E-04	1.000E-04	1.000E-04	2.00	4.00	၁	O
e 7,000E-04 7,000E-04 7,000E-04 1,000E-04 1,000E	m-Xylene & p-Xylene	9.000E-04	9.000E-04	4.000E-04	1.000E-04	1.000E-04	2.25	9.00	၁	В
the condition of	Styrene	7.000E-04	7.000E-04	QN	1.000E-04	1.000E-04	10.00	7.00	A	8
No. No.	o-Xylene	4.000E-04	4.000E-04	2.000E-04	1.000E-04	1.000E-04	2.00	4.00	ပ	O
ND ND ND 1,000E-04 1,000E-04 ND ND F F	n-Nonane	5.000E-04	5.000E-04	QN	1.000E-04	1.000E-04	10.00	5.00	A	В
Viberization ND ND ND 1,000E-04 ND ND F Vibulane ND ND ND 1,000E-04 1,000E-04 ND ND F Inmethylbenzene ND ND 1,000E-04 1,000E-04 ND ND F rimethylbenzene & sec-Buylbenzene ND ND ND 1,000E-04 1,000E-04 ND ND F rimethylbenzene & sec-Buylbenzene & sec-Buylbe	i-Propylbenzene	Q	9	2	1.000E-04	1.000E-04	QN	QN	F	u.
Includence ND ND 1000E-04 1,000E-04 1,000E-04 ND ND PF Includence ND ND ND 1,000E-04 1,000E-04 ND ND PF Includence ND ND ND 1,000E-04 1,000E-04 1,000E-04 ND ND PF Includence ND ND ND 1,000E-04 1,000E-04 1,000E-04 0,000E-04 ND PF Includence ND ND ND 1,000E-04 1,000E-04 1,000E-04 ND PF Includence ND ND ND 1,000E-04 1,000E-04 1,000E-04 ND ND PF Includence ND ND ND 1,000E-04 1,000E-04 ND ND PF Carence ND ND ND 1,000E-04 1,000E-04 ND ND PF Includence ND ND 1,000E-04 1,000E-04 ND ND	n-Propyibenzene	Q	Q	Q	1.000E-04	1.000E-04	Q	Q	L	Т
Includente ND ND 1,000E-04 1,000E-04 1,000E-04 1,000E-04 ND	p-Ernyitoluene	Q	Q.	0	1.000E-04	1.000E-04	QN	QN	ட	ıL
Inflicting/benizerie ND ND 1,000E-04 ND ND PF Inflicting/benizerie ND ND 1,000E-04 1,000E-04 1,000E-04 ND PF Irimethylbenzene & sec-Butylbenzene 3,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 ND ND PF Inflee ND ND ND 1,000E-04 1,000E-04 ND ND PF Carene ND ND ND 1,000E-04 1,000E-04 ND ND PF Carene ND ND ND 1,000E-04 1,000E-04 ND ND PF Inflee ND ND ND 1,000E-04 1,000E-04 ND ND PF Inflee ND ND ND 1,000E-04 1,000E-04 ND ND PF Inflee ND ND ND 1,000E-04 1,000E-04 ND ND PF Inflee ND ND	1.2 E Trimoth Thomas	2	2	2	1.000E-04	1.000E-04	Q	Q	ıL	L.
rimethylbenzene & sec-Butylbenzene 3.000E-04 3.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 0.000E-04	ensity of the little of the li	2 5	2	ON!	1.000E-04	1.000E-04	Q	QN	ш	щ
rimethylbenzene & sec-Butylbenzene 3.000E-04 3.000E-04 1.000E-04 1.000E-04 1.000E-04 0.000E-04	o-crityrouene	2	Q	QN	1.000E-04	1.000E-04	QN	2	ч	ш
ine ND ND ND 1.000E-04 1.000E-04 ND ND F Pinene ND ND 1.000E-04 1.000E-04 ND ND F Carene ND ND 1.000E-04 1.000E-04 ND ND F nene ND ND ND 1.000E-04 1.000E-04 ND ND F nene ND ND ND 1.000E-04 ND F P odiffuormethane 1.520E-03 1.520E-03 3.698E-04 4.992E-04 4.11 3.05 C C nloride ND ND 2.080E-04 2.080E-04 ND ND F F	1,2,4-Trimethylbenzene & sec-Butylbenzene	3.000E-04	3.000E-04	1.000E-04	1.000E-04	1.000E-04	3,00	3.00	O	C
Pinene ND ND ND 1.000E-04 1.000E-04 ND ND F P Carene ND ND 1.000E-04 1.000E-04 ND ND F P Carene ND ND ND 1.000E-04 1.000E-04 ND P P nene ND ND 1.000E-04 1.000E-04 1.000E-04 ND P P nD ND ND 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 ND P odiffuoromethane 1.520E-03 1.520E-03 3.698E-04 4.992E-04 4.11 3.05 C nlonde ND ND 2.080E-04 2.080E-04 ND ND P	n-Decane	ON	QN	Q	1.000E-04	1.000E-04	Q	Q	L	ш
Inene ND ND ND 1.000E-04 1.000E-04 ND ND F P -Carene ND ND 1.000E-04 1.000E-04 1.000E-04 ND ND F P nene ND ND 1.000E-04 1.000E-04 1.000E-04 ND ND F P nodifluoromethane 1.520E-03 1.520E-03 3.698E-04 4.992E-04 4.11 3.05 C P nodifluoromethane ND ND ND 2.080E-04 2.080E-04 ND ND F P	alpha-Pinene	QN	QN	QN	1.000E-04	1.000E-04	QN	2	ш	<u></u>
Carene ND ND 1.000E-04 1.000E-04 ND ND P P nene ND ND 1.000E-04 1.000E-04 1.000E-04 ND ND F P nodifluoromethane 1.520E-03 1.520E-03 3.698E-04 4.992E-04 4.11 3.05 C P nodifluoromethane ND ND ND 2.080E-04 4.992E-04 4.11 3.05 C P	beta-Pinene	ND	QN	QN	1.000E-04	1.000E-04	9	2	ட	u.
nene ND ND 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 2.75 11.00 F P 1.100E-03 1.100E-03 4.000E-04 1.000E-04 2.75 11.00 C C ND ND ND 1.000E-04 1.000E-04 ND ND F C odifluoromethane 1.520E-03 3.698E-04 4.992E-04 4.11 3.05 C nD ND ND ND ND ND F F	delta 3-Carene	QN	QN	QN	1.000E-04	1.000E-04	QV.	Q.	L	ш
1.100E-03 1.100E-03 4.000E-04 1.000E-04 1.000E-04 2.75 11.00 C ND ND ND 1.000E-04 1.000E-04 ND ND F colfluoromethane 1.520E-03 3.698E-04 4.992E-04 4.11 3.05 C chloride ND ND ND ND F F	d-Limonene	Q	QN	ND	1.000E-04	1.000E-04	Q	S.	ш	L
ND ND ND 1.000E-04 1.000E-04 ND ND F rodifluoromethane 1.520E-03 1.520E-03 3.698E-04 4.992E-04 4.11 3.05 C chloride ND ND ND 2.080E-04 ND ND F	MTBE	1.100E-03	1.100E-03	4.000E-04	1.000E-04	1.000E-04	2.75	11.00	O	A
Institution 1.520E-03 1.520E-03 3.698E-04 4.992E-04 4.992E-04 4.11 3.05 C ND ND ND 2.080E-04 2.080E-04 ND ND F	ETBE	Q	QN	QN	1.000E-04	1.000E-04	QN	ON	ш	u
ND ND 2.080E-04 2.080E-04 ND	Uchlorodiffuoromethane	1.520E-03	1.520E-03	3.698E-04	4.992E-04	4.992E-04	4.11	3.05	၁	ပ
	Methylchlonde	Q	QN	Q	2.080E-04	2.080E-04	ND	QN	ц	ட

TABLE A-5. AEC - VOC DATA EVALUATION FOR BOOBY TRAP FLASH TEST (28 MARCH 1998)

	Average Concentration -	Average Concentration -	Average Background - Concentration,	Average Maximum Detection Limit - Concentration,	Average Minimum Detection Limit - Concentration,	Background Evaluation	Minimum Detection Limit Evaluation	Background Evaluation	Minimum Detection Limit Evaluation
Compound (a)	Hun 1, mg/m	Hun 1, mg/m	Ege.	. நீர் ப	mgm -	Criteria	Criteria	Selon	Notes
Dichlorotetrafluoroethane	ON SOL	ON TOOL Y	2 2	7.114E-04	7.114E-04	ON	200	L	L U
Chloroetherie	1.4925-04	1.4920-04	ND 0000	2.02.1E-04	0.0215-04	0.0	4.09	ر ر	
1,3-Butadiene	9.154E-04	9.154E-04	2.034E-04	2.246E-04	2.240E-04	4.50	4.08	שונ	يا د
Metnyibromide	2	Q.	Q i	3.95ZE-04	3.322-04		2 5		
Ethylchloride	Q	QV	Q	2.683E-04	2.683E-04	QN	Q	4	۲,
Trichloromonofluoromethane	2.482E-03	2.482E-03	2	5.699E-04	5.699E-04	10.00	4.36	Α	ပ
Vinylidenechloride	QN .	QN	ND	4.035E-04	4.035E-04	QN	ON	±.	ш
Methylenechloride	5.830E-03	5.830E-03	4.948E-04	3.536E-04	3.536E-04	11.78	16.49	V	٧
Allylchloride	Q	S	2	3.182E-04	3.182E-04	2	9	L	ш
1,1,2-Trichloro-1,2,2-trifluoroethane	8.615E-04	8.615E-04	8.561E-04	7.821E-04	7.821E-04	1.01	1.10	۵	٥
1.1-Dichloroethane	Q	QN	QN	4.118E-04	4.118E-04	QN	Q	4	L
1.2-Dichloroethene	2	QN	2	4.035E-04	4.035E-04	QN	Q.	ш	L
Chloroform	2	QN	Q	4.950E-04	4.950E-04	QN	QN.	Ц	Ŀ
1.2-Dichloroethane	2	QN	Q	4.118E-04	4.118E-04	QN	Ð	L	Ш
Methylchloroform	3.770E-04	3.770E-04	3.374E-04	5.533E-04	5.533E-04	1.12	0.68	۵	ш
Benzene	4.831E-03	4.831E-03	7 120E-04	3.245E-04	3.245E-04	6.79	14.89	æ	4
Carbontetrachloride	7.722E-04	7.722E-04	6.288E-04	6.406E-04	6.406E-04	1.23	1.21	٥	٥
1.2-Dichloropropane	8	QN	9	4.701E-04	4.701E-04	QV	Q	4	ш
Trichloroethylene	9	QN	QN	5.533E-04	5.533E-04	Q	QN	ш	L
cis 1,3-Dichloro-1-propene	Q.	QN	Q	4.618E-04	4.618E-04	Q	Q	u.	u.
trans 1,3-Dichloro-1-propene	Q	QN	Q	4.618E-04	4.618E-04	QN	QN	ய	u.
1,1,2-Trichloroethane	2	QN	2	5.533E-04	5.533E-04	2	QV	ட	ш
Toluene	3.051E-03	3.051E-03	8.137E-04	3.827E-04	3.827E-04	3.75	76.7	2	8
1,2-Dibromoethane	2	QN	2	7.821E-04	7.821E-04	2	Ð	ட	ш
Perchloroethylene	Q	QN	Q	6.906E-04	6.906E-04	Q.	2	ш.	ц.
Chlorobenzene	9	S	Q	4.701E-04	4.701E-04	QV	2	4	L.
Ethylbenzene	6.141E-04	6.141E-04	QV	6.656E-04	6.656E-04	10.00	0.92	٧	ш .
m&p-Xylene	8.197E-04	8.197E-04	3.658E-04	4.410E-04	4.410E-04	2.24	1.86	0	D
Styrene	3.721E-04	3.721E-04	QN	4.326E-04	4.326E-04	10.00	0.86	Y	4
1,1,2,2-Tetrachloroethane	QN	QN	QN	6.989E-04	6.989E-04	QN	QN	4	F
o-Xylene	4.068E-04	4.068E-04	QN	4.410E-04	4.410E-04	10.00	0.92	Y	F
p-Ethyltoluene	Q	S	QN	4.992E-04	4.992E-04	Q	Q	ц.	u.
1,3,5-Trimethylbenzene	ON	ND	QN	4.992E-04	4.992E-04	ND	ND	11.	Ŧ
1,2,4-Trimethylbenzene	3.255E-04	3.255E-04	QN	4.992E-04	4.992E-04	10.00	0.65	٧	ш
Benzylchloride	ON	QN	QN	5.283E-04	5.283E-04	QN	QN	4	н
m-Dichlorobenzene	QN	QN	2	6.115E-04	6.115E-04	QN	QN	u.	ட
p-Dichlorobenzene	Q	QN	2	6.115E-04	6.115E-04	QN	QN	u.	ட
o-Dichlorobenzene	QN	QN	QN	6.115E-04	6.115E-04	QN	QN	4	Н.
1,2,4-Trichlorobenzene	ON	QN	QN	7.530E-04	7.530E-04	DN	ON	Ł	F
Hexachlorobutadiene	ON	ON	ON	1.086E-03	1.086E-03	QN	ON	ш	ட
Phenylacetylene	2.424E-04	2.424E-04	QN	4.243E-04	4.243E-04	10.00	0.57	V	LL
Indane	2	Q	Q	4.909E-04	4.909E-04	Q	Q	ш	ш
2,3-Dihydro-1-methyl-1H-indene	2	QV	Q	5.491E-04	5.491E-04	Q	QN	L.	_

TABLE A-5. AEC - VOC DATA EVALUATION FOR BOOBY TRAP FLASH TEST (28 MARCH 1998)

	Average	Average Concentration -	Average Background -	Average Maximum Detection Limit -	Average Minimum Detection Limit -	Background	Minimum Detection Limit	Background	Minimum Detection Limit
Compound (a)	Run 1, mg/m³	Run 1, mg/m³	mg/m³	mg/m³	mg/m³	Criteria	Criteria	Notes	Notes
2,3-Dihydro-4-methyl-1H-indene	ND ND	ON	QN	5.491E-04	5.491E-04	QN	QN	ш	L
Naphthalene	7.156E-04	7.156E-04	QN	5.325E-04	5.325E-04	10.00	1.34	A	٥
2-Methytnaphthalene	QV.	Q	S	5.907E-04	5.907E-04	QN	QN	Ł	ட
1-Methylnaphthalene	QN	Q	QV	5.907E-04	5.907E-04	QN	QN	F	L.
Cyanogen	DN	ND	QN	2.163E-04	2.163E-04	QN	QN	F	L
Methylnitrite	6.177E-04	6.177E-04	QN	2.538E-04	2.538E-04	10.00	2.43	A	ပ
Acetonitrile	3.440E-04	3.440E-04	QN	1.706E-04	1.706E-04	10.00	2.02	A	S
Acrylonitrile	2.985E-04	2.985E-04	ON	2.205E-04	2.205E-04	10.00	1.35	A	Ω
Nitromethane	6.873E-04	6.873E-04	QN	2.538E-04	2.538E-04	10.00	2.71	A	O
Propanenitrile	QN	QN	QN	2.288E-04	2.288E-04	QN	QN	ш	ш
2-Methylpropanenitrile	QN	Q	S	2.870E-04	2.870E-04	2	QN	ட	щ
Pentanenitrile	ON	QN	QN	3.453E-04	3.453E-04	QN	QN	ш	ட
Hexanenitrile	DN	ND	QN	4.035E-04	4.035E-04	QN	QN	ட	щ
Benzonitrile	2.302E-04	2.302E-04	Q	4.285E-04	4.285E-04	10.00	0.54	٧	L.
2-Nitrophenol	QV	QN	QN	5.782E-04	5.782E-04	ND	Q	ட	ш
Acrolein	1.874E-03	1.874E-03	Q	2.330E-04	2.330E-04	10.00	8.05	٨	В
Acetone	6.650E-03	6.650E-03	5.352E-03	2.330E-04	2.330E-04	1.24	28.55	۵	¥
1-Hydroxy-2-propanone	QN	Q	QN	3.078E-04	3.078E-04	Q	QN	ш	щ
Furan	1.779E-04	1.779E-04	QN	2.829E-04	2.829E-04	10.00	0.63	٧	u.
2-Propanol	QN	Q	QN	2.496E-04	2.496E-04	Q	QN	ш	ш
2-Methylpropanal	QN	Q	Q	3.078E-04	3.078E-04	2	Q	ш	L.
1-Propanol	Q	2	Q.	2.496E-04	2.496E-04	Q.	QN	щ	L
Methacrolein	Q.	2	Q !	2.912E-04	2.912E-04	2	2	L.	LL 1
Methyl-vinyl Ketone	QN	2	QN	2.912E-04	2.912E-04	Q	QN	L	L.
MTBE	1.034E-03	1.034E-03	1.839E-04	3.661E-04	3.661E-04	5.62	2.83	8	C) I
2,3-Butanedione	ON	ON	ON	3.5/8E-04	3.5/8E-04	ON.	Q.	L	L
Butanal	3.928E-04	3.928E-04	3.210E-04	2.995E-04	2.995E-04	1.22	1.31	٥	٥
2-butanone	1.300E-03	1.300E-03	0.092E-04	2.990E-04	2.995E-04	2.80	5.23	٥١	0 14
2-Methylinan	2 5	2 5	2 5	3 411E-04	3 4115-04		2 2	_ _	_ _
Tetrahydrofuran	Q.	2	2	2.995E-04	2.995E-04	Q.	2		L
trans-2-Butenal	3.977E-04	3.977E-04	Q	2.912E-04	2.912E-04	10.00	1.37	٨	۵
Acetic Acid	2.832E-03	2.832E-03	8.137E-04	2.496E-04	2.496E-04	3.48	11.34	ပ	4
1-Butanol	QN	Q	QN	3.078E-04	3.078E-04	QN	QV	щ	L.
2-Pentanone	2.989E-04	2.989E-04	2.374E-04	3.578E-04	3.578E-04	1.26	0.84	O	Ľ.
Pentanal	1.645E-03	1.645E-03	1.306E-03	3.578E-04	3.578E-04	1.26	4.60	٥	ပ
1,4-Dioxane	QN	QN	QN	3.661E-04	3.661E-04	QV	QN	ட	ш
Methyl Methacrylate	QN	QN	QN	4.160E-04	4.160E-04	QN	QN	ш	ш
Cyclopentanone	DN	QN	ON	3.494E-04	3.494E-04	ND	QN	F	ıL
Hexanal	1.330E-03	1.330E-03	9.985E-04	4.160E-04	4.160E-04	1.33	3.20	٥	ပ
2-Furaldehyde	1.307E-03	1.307E-03	4.095E-04	3.994E-04	3.994E-04	3.19	3.27	ပ	ပ
Cyclohexanone	2.235E-04	2.235E-04	QN	4.077E-04	4.077E-04	10.00	0.55	V	щ
Heptanal	1.293E-03	1.293E-03	8.661E-04	4.742E-04	4.742E-04	1.49	2.73	۵	U

TABLE A-5. AEC - VOC DATA EVALUATION FOR BOOBY TRAP FLASH TEST (28 MARCH 1998)

Compound (a)	Average Concentration - Run 1, mg/m³	Average Concentration - Run 1, mg/m ³	Average Background - Concentration, mg/m³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³	Background Evaluation Criteria	Minimum Detection Limit Evaluation Criteria	Background Evaluation Notes	Minimum Detection Limit Evaluation Notes
2-Butoxyethanol	ND	QN	ND	4.909E-04	4.909E-04	QN	ΩN	ц	т
Benzaldehyde	2.277E-03	2.277E-03	1.153E-03	4.410E-04	4.410E-04	1.98	5.16	a	8
6-Methyl-5-hepten-2-one	g	Q.	QN	5.242E-04	5.242E-04	ND	QN		Ŧ
Octanal	3.105E-03	3.105E-03	2.207E-03	5.325E-04	5.325E-04	1.41	5.83	Q	8
Benzofuran	S	9	QV	4.909E-04	4.909E-04	QN	QN	4	ц.
2-Ethyl-1-hexanol	S	QN	QN	4.992E-04	4.992E-04	QN	QN	4	ш
Acetophonone	3.716E-04	3.716E-04	GN	4.992E-04	4.992E-04	10.00	0.74	Α	T.
Nonanal	4.906E-03	4.906E-03	2.870E-03	5.907E-04	5.907E-04	1.71	8.30	۵	8
Decanal	4.607E-03	4.607E-03	3.192E-03	6.490E-04	6.490E-04	1.44	7.10	۵	8
Carbonyl Sulfide	3.974E-04	3.974E-04	2.525E-04	2.496E-04	2.496E-04	1.57	1.59	۵	٥
Carbon Disulfide	3.460E-02	3.460E-02	1.143E-03	3.162E-04	3.162E-04	30.28	109.44	Y	A
Thiophene	4.147E-04	4.147E-04	QN	3.494E-04	3.494E-04	10.00	1.19	A	۵
Dimethyldisulfide	Q	QV	QN	3.910E-04	3.910E-04	ND	QN	4	F

a Compounds in bold represent duplicate values.

A = Identified as a contaminant (greater than or equal to 10 times background or minimum MQL)

B = Likely contaminant (less than 10 and greater than or equal to 5 times background or minimum MQL)

C = Probable contaminant (less than 5 and greater than or equal to 2 times background or minimum MQL)

D = Measured, but accuracy or presence questionable (less than 2 and greater than or equal to 1 times background or minimum MQL)

F = Not considered a contaminant (less than 1 times background or minimum MQL)

TABLE A-6. AEC - VOC RUN NO. 1 DATA FOR BOOBY TRAP FLASH TEST (28 MARCH 1998)

Maight Maight Marings Marings Maight		17.885 (0.15)										
Compound (e) Weight Run I, mg/m² Run II, mg/m² Run III, mg/m² Run III Run IIII Run III, mg/m² Run III, mg/m² Run IIII Run III Run III, mg/m² Run III, mg/m² Run III, mg/m² Run III Run III, mg/m² Run III, mg/m² Run III Run III, mg/m² Run III, mg/m² Run III, mg/m² Run III, mg/m² </th <th></th> <th>Molecular</th> <th>Average Concentration -</th> <th>Average Concentration -</th> <th>Background - Concentration,</th> <th>Background Corrected Concentration -</th> <th>Dilution</th> <th>Corrected Concentration -</th> <th>Initial Plume</th> <th>Sample Total Material - Run</th> <th>Number of</th> <th>Corrected Emission Factor - Run</th>		Molecular	Average Concentration -	Average Concentration -	Background - Concentration,	Background Corrected Concentration -	Dilution	Corrected Concentration -	Initial Plume	Sample Total Material - Run	Number of	Corrected Emission Factor - Run
The compound (VOCs) The compound (VOCs)		Weight	Run 1, ppbv	Run 1, mg/m³	mg/m³	Run 1, mg/m³	Factor (b), %	Run 1, mg/m³	Volume, ft³	1, lb	Items	1, lb/item
Description of Type (Component MOCO) 2 2444 3 200E-GO 4 500E-GO -3 200E-GO	Total Nonmethane Hydrocarbone (TNMHC)							:				
Transic Compound (YOCS) 2644 300E-03 2,600E-03 5,600E-03 0.9153 N.D. 0.248 1 22 7,003 8,200E-03 2,600E-03 6,600E-03 0.9153 N.D. 0.0248 1 2 7,003 8,200E-03 2,600E-03 0.9153 N.D. 0.0248 1 2 7,100 1,200E-03 2,800E-03 1,100E-03 1,100E-03 0.0158 N.D. 0.0248 1 2 1,100E-03 2,800E-03 1,100E-03 1,100E-0	TNMHC	,		9.070E-02	4.600E-02	4.470E-02	0.9153	4.884E-02	36,248	1.105E-04	29	3.811E-06
Transie Compound (VOC6) 26 12644 3.00E-00 6.500E-00 0.9153 IND 0.62-88 Free Compound (VOC6) 22 7.083 2.266E-00 6.500E-00 0.9153 1.070 0.02-88 Free Compound (VOC6) 22 7.083 2.266E-00 9.500E-00 0.9153 ND 0.02-88 Free Compound (VOC6) 22 7.083 1.300E-00 3.000E-00 0.9153 ND 0.02-88 Free Compound (VOC6) 2.0164 2.000E-00 1.000E-00 0.9153 ND 0.02-88 Free Compound (VOC6) 2.0164 2.000E-00 1.000E-00 0.9153 ND 0.02-88 Free Compound (VOC6) 2.000E-00 2.000E-00 1.000E-00 0.9153 ND 0.02-88 Free Compound (VOC6) 2.000E-00 2.000E-00 1.000E-00 1.000E-00 0.9153 ND 0.02-88 Free Compound (VOC6) 2.000E-00 2.000E-00 1.000E-00 0.9153 ND 0.02-88 Free Compound (VOC6) 2.000E-00 2.00												
2 80 7.0844 3.00E-GO 2.020E-GO 6.91550 6.175E-GO 9.02.248 1 1, 000E 1.00E 2.00E-GO 2.00E-GO 6.00E-GO 6.91550 1.075E-GO 9.02.248 1 1, 000E 1.00E 2.00E-GO 2.00E-GO 1.00E-GO 1.00E-GO 9.055.248 9.02.248 1 1, 000E 1.00E 2.00E-GO 1.00E-GO 0.9153 N.D 9.052.248 1 1, 000E 2.00E-GO 1.00E-GO 1.00E-GO 0.9153 N.D 9.052.248 1 1, 000E 2.00E-GO 1.00E-GO 1.00E-GO 1.00E-GO 0.9153 N.D 9.052.248 1 1, 000E 0.10E 2.00E-GO 1.00E-GO 1.00E-GO 0.9153 N.D 9.052.248 1 1, 000E 0.10E 0.10E 2.00E-GO 1.00E-GO 0.9153 N.D 9.052.84 1 1, 000E 0.10E 0.10E 1.00E-GO 1.00DE-GO 0.9153 N.D 9.052.84 1 1, 000E 0.10E 0.10E 1.00DE-GO 1.00DE-GO	Volatile Organic Compounds (VOCs)											
1	Ethane	30	2.644	3.300E-03	6.500E-03	-3.200E-03	0.9153	Q	36,248	ð	29	S
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Ethylene	28	7.083	8.250E-03	2.600E-03	5.650E-03	0.9153	6.173E-03	36,248	1.397E-05	29	4.817E-07
44 0.770 1.000E-03 3.100E-04 0.500E-04 4.000E-04 1.000E-03 1.000E-04 0.500E-04 1.000E-04 1.000E-04 1.000E-04 0.500E-04	Acetylene	26	11.603	1.255E-02	3.200E-03	9.350E-03	0.9153	1.022E-02	36,248	2.312E-05	29	7.971E-07
42 1,202 2,100E do 3,100E do 4,100E do 1,100E do	Propane	44	0.710	1.300E-03	2.600E-03	-1.300E-03	0.9153	ND	36,248	QN	29	QN
Fige 0.104 2.200Ced 4.00CeC/H 4.00CeC/H 6.00E-GA 0.9153 ND 36.248 Here 56 0.193 4.00CeC/H 4.00CeC/H 6.00CeC/H 6.00E-GA 0.9153 ND 36.248 Here 56 0.419 4.00CeC/H 1.00CeC/H 7.00CeC/H 0.9153 ND 36.248 Here 58 0.515 1.00CeC/H 1.00CeC/H <td>Propene</td> <td>42</td> <td>1.202</td> <td>2.100E-03</td> <td>3.100E-03</td> <td>-1.000E-03</td> <td>0.9153</td> <td>ON</td> <td>36,248</td> <td>QN</td> <td>29</td> <td>QN</td>	Propene	42	1.202	2.100E-03	3.100E-03	-1.000E-03	0.9153	ON	36,248	QN	29	QN
56 0.086 2.000EGA 8.00EGA 6.05153 ND 36,246 Anne 56 0.1813 4.00EGA 1.000EGA	i-Butane	28	0.104	2.500E-04	4.000E-04	-1.500E-04	0.9153	Q	36,248	QN	29	ON
56 0.183 4.500E-04 1.000E-03 4.500E-04 0.5153 7.648E-04 36,248 Bane 5.8 0.416 9.000E-04 1.000E-03 7.000E-04 0.5153 ND ND 0.6248 Bane 5.8 0.416 1.000E-04 1.000E-04 1.000E-04 0.5153 ND 0.6248 0.6248 Bane 5.6 0.043 1.000E-04 1.000E-04 1.000E-04 0.9153 ND 0.6248 Bane 7.0 ND ND ND ND 0.9153 ND 0.6248 Bane 7.0 ND ND ND ND 0.9153 ND 0.6248 Bane ND ND ND ND ND 0.9153 ND 0.6248 Bane ND ND ND ND ND 0.9153 ND 0.6248 Bane ND ND ND ND ND ND 0.9153 ND 0.9248	i-Butene	26	0.086	2.000E-04	8.000E-04	-6.000E-04	0.9153	QV	36,248	Q	29	QN
Page 2016 Page	1-Butene	26	0.193	4.500E-04	1.300E-03	-8.500E-04	0.9153	Q	36,248	QN	29	Q
The color of the	1,3-Butadiene	24	0.401	9.000E-04	2.000E-04	7.000E-04	0.9153	7.648E-04	36,248	1.731E-06	29	5.968E-08
Total Control Contro	n-Butane	28	0.166	4.000E-04	1.100E-03	-7.000E-04	0.9153	2	36,248	QN	29	2
No. No.	trans-2-Butene	26	0.515	1.200E-03	2.000E-04	1.000E-03	0.9153	1.093E-03	36,248	2.472E-06	29	8.525E-08
Part	c,c-Umetrlypropane	7)	200	UN OSSE	ON	QN C	0.9153	2 5	36,248	ON S	29	2
Total Colored Total Colore	cis-z-butene	8 6	50.043	1.000E-04	2.000E-04	-1.000E-04	0.9153	2	36,248	Q.	29	
To NO NO NO NO NO NO NO N	Domen Principle	2 5	0000	UND O	1.000 -04	QN 1000 F	0.9153	ON 1920	36,248	ON COLOR	62	
10	1-Partana	2/2	0.300	9.000E-04	97.000E-04	4.000E-04	0.9153	4.3/UE-04	30,248	9.889E-U/	62	3.410E-08
The color of the	2-Methyl-1-butene	0,2	2 2	Q Q	3 000F-04	2 2	0.9153	2 2	36.248	2 2	20	2 2
Colored ND 1,000E-04 ND 0,915.3 ND 36,248 ND 1,000E-04 ND 0,915.3 ND 36,248 ND ND ND ND ND ND ND N	n-Pentane	72	0.267	8.000E-04	5.000E-04	3.000E-04	0.9153	3.278E-04	36.248	7.417E-07	53	2.558E-08
No. No.	Isoprene	89	ND	QN	1.000E-04	QN	0.9153	QN	36,248	QN	29	QN
No. No.	trans-2-Pentene	20	ON	QN	1.000E-04	ON	0.9153	ND	36,248	ON	29	ND
No. No.	cis-2-Pentene	20	QN	QN	Q	QV	0.9153	ON	36,248	ON	29	ND
nine 86 NOZ8 1,000E-04 4,000E-04 -3,000E-04 0,9153 ND 36,248 nine 86 ND ND ND ND O,9153 ND 36,248 nine 84 ND ND 1,000E-04 5,000E-04 5,005E-04 0,9153 ND 36,248 nine 86 0,168 6,000E-04 1,000E-04 5,000E-04 0,9153 5,463E-04 36,248 nine 86 0,228 8,500E-04 1,000E-04 7,500E-04 0,9153 8,19E-04 36,248 nine 86 0,328 8,500E-04 1,000E-04 7,500E-04 0,9153 ND 36,248 nine 84 ND ND ND ND ND 0,9153 ND 36,248 nine 84 ND ND ND ND ND 0,9153 ND 36,248 nine 84 ND ND ND ND ND ND <th< td=""><td>2-Methyl-2-butene</td><td>70</td><td>QV</td><td>QN</td><td>QN</td><td>QN</td><td>0.9153</td><td>Q</td><td>36,248</td><td>QN</td><td>29</td><td>QN</td></th<>	2-Methyl-2-butene	70	QV	QN	QN	QN	0.9153	Q	36,248	QN	29	QN
Name	2,2-Dimethylbutane	98	0.028	1.000E-04	4.000E-04	-3.000E-04	0.9153	Q	36,248	Q	29	Q
ne 74 ND ND 1,000E-04 ND 0,9153 ND 36,248 nne 86 0.168 6,000E-04 1,000E-04 5,000E-04 0,9153 ND 36,248 nne 86 0.2321 1,150E-03 3,000E-04 5,000E-04 0,9153 5,463E-04 36,248 nne 86 0.238 1,150E-03 3,000E-04 7,500E-04 0,9153 8,19E-04 36,248 nne 84 ND ND ND ND 0,9153 ND 36,248 nne 84 ND ND ND ND 0,9153 ND 36,248 nne 84 ND ND ND ND 0,9153 ND 36,248 nne 84 ND ND ND ND 0,9153 ND 36,248 nne 84 ND ND ND ND 0,9153 ND 36,248 nne 84 ND <t< td=""><td>Cyclopentene</td><td>89 8</td><td>2 2</td><td>2 2</td><td>Q</td><td>0 2</td><td>0.9153</td><td>2</td><td>36,248</td><td>Q S</td><td>29</td><td>9</td></t<>	Cyclopentene	89 8	2 2	2 2	Q	0 2	0.9153	2	36,248	Q S	29	9
Interest 86 0.168 6.000E-04 1.000E-04 5.00E-04 0.9153 5.40E-04 36.248 entene 84 ND ND ND ND 0.9153 5.40E-04 36.248 entene 84 ND 1.150E-03 3.000E-04 1.09153 9.287E-04 36.248 entene 86 0.238 8.500E-04 1.000E-04 0.9153 9.287E-04 36.248 entene 84 ND ND ND ND ND 36.248 entene 84 ND ND ND ND 0.9153 ND 36.248 entene 84 ND ND ND ND 0.9153 ND 36.248 entene 84 ND ND ND ND 0.9153 ND 36.248 entene 84 ND ND ND ND 0.9153 1.256E-03 36.248 entene 84 ND ND ND	Cyclopeniane	5 5	2 5	2 2	1000 t	2 2	0.9133	2 2	30,240	2 2	62	2 2
The color of the	2 3-Dimethylhytana	2 8	0.168	8 000E-04	1.000E-04	2000	0.5133	A62E.04	36,240	ON 1350 F	62	1 262E 00
He 0.321 1.150E-03 3.000E-04 8.500E-04 0.9153 9.287E-04 36.248 Ine B6 0.238 8.500E-04 1,000E-04 7.500E-04 0.9153 8.194E-04 36.248 Ine B4 ND ND ND ND ND 36.248 Ine B4 0.143 5.000E-04 2.000E-04 1.150E-03 0.9153 1.256E-03 36.248 Ine ND ND ND ND ND ND 36.248 Ine 1.050	cis-4-Methyl-2-pentene	28	ON	QN	ON.	ND	0.9153	ND	36.248	ON CIN	60	ND CN
ne 86 0.238 8.500E-04 1,000E-04 7,500E-04 0.9153 8194E-04 36,248 ne 84 ND ND ND ND 0.9153 ND 36,248 ne 84 ND ND ND ND 0.9153 ND 36,248 ne 84 ND ND ND ND ND 0.9153 ND 36,248 ne 84 ND ND ND ND ND 0.9153 ND 36,248 ne 84 ND ND ND ND 0.9153 ND 36,248 ne 84 ND ND ND ND 0.9153 ND 36,248 siane 84 0.143 5,000E-04 2,000E-04 1,150E-03 0.9153 1,256E-03 36,248 iane 84 0.143 5,000E-04 2,000E-04 1,150E-03 0.9153 1,256E-03 36,248 iane 1	2-Methylpentane	98	0.321	1.150E-03	3.000E-04	8.500E-04	0.9153	9.287E-04	36,248	2.101E-06	29	7.246E-08
she ND ND ND ND O.915.3 ND 36,248 she ND ND ND ND 0.915.3 ND 36,248 she ND 1,200E-03 2,000E-04 1,000E-03 0.915.3 1,093E-03 36,248 she ND ND ND ND ND 0.915.3 ND 36,248 she ND ND ND ND ND 0.915.3 ND 36,248 she ND ND ND ND ND 0.915.3 ND 36,248 she ND ND ND ND 0.915.3 ND 36,248 she ND ND ND ND 0.915.3 1,266E-03 36,248 she ND 1,200E-04 2,000E-04 1,000E-04 1,000E-03 0.915.3 1,256E-03 36,248 she ND 0,096 4,000E-04 1,000E-04 1,000E-04 0.915.3 1,	3-Methylpentane	86	0.238	8.500E-04	1.000E-04	7.500E-04	0.9153	8.194E-04	36,248	1.854E-06	29	6.394E-08
84 ND ND ND ND ND ND 36,248 ne 86 0,335 1,200E-03 2,000E-04 1,000E-03 0,9153 1,093E-03 36,248 ne 84 ND ND ND ND ND 36,248 ane 84 ND ND ND ND 3,000E-04 3,000E-04 0,9153 ND 36,248 ane 84 ND ND ND ND 0,9153 ND 36,248 Iane 84 0,143 5,000E-04 2,000E-04 1,150E-03 0,9153 1,256E-03 36,248 Iane 100 0,300 1,250E-03 1,000E-04 1,000E-03 0,9153 1,256E-03 36,248 8 100 0,096 4,000E-04 1,000E-04 1,000E-04 0,9153 3,278E-04 36,248 100 0,553 2,300E-04 4,000E-04 1,500E-04 0,9153 1,69E-03 36,248 100	2-Methyl-1-pentene	84	QN	QN	ND	QN	0.9153	ON	36,248	QN	29	QN
see 0.335 1,200E-03 2,000E-03 1,000E-03 0,9153 1,093E-03 36,248 she ND ND ND ND ND 36,248 36,248 she ND ND ND ND ND 36,248 36,248 ane 84 ND ND ND ND 0.9153 ND 36,248 ane 84 ND ND ND ND 0.9153 ND 36,248 lane 84 0.143 5.000E-04 2.000E-04 1.150E-03 0.9153 1.256E-03 36,248 lane 84 0.146 4.750E-03 1.000E-04 1.150E-03 0.9153 1.256E-03 36,248 lane 100 0.086 4.000E-04 1.000E-04 1.000E-04 0.9153 1.256E-03 36,248 lane 100 0.553 2.300E-03 2.000E-04 2.100E-03 0.9153 2.294E-03 36,248 lane 100 0.553 </td <td>1-Hexene</td> <td>84</td> <td>ND</td> <td>ON</td> <td>ON</td> <td>ON</td> <td>0.9153</td> <td>QN</td> <td>36,248</td> <td>QN</td> <td>29</td> <td>QN</td>	1-Hexene	84	ND	ON	ON	ON	0.9153	QN	36,248	QN	29	QN
ne 84 ND ND ND ND ND 36.248 ne 84 ND ND ND ND 0.9153 ND 36.248 ane 84 ND ND ND ND ND 3.00E-04 0.9153 ND 36.248 lane 84 0.143 5.00E-04 2.00GE-04 3.00E-04 0.9153 ND 36.248 lane 100 0.300 1.250E-03 1.000E-04 1.150E-03 0.9153 1.256E-03 36.248 n 100 0.086 3.000E-04 1.000E-04 1.000E-03 0.9153 A.75E-03 36.248 n 100 0.086 4.000E-04 1.000E-04 0.9153 ND 36.248 n 100 0.056 4.000E-04 1.000E-04 0.9153 2.294E-03 36.248 n 100 0.553 2.300E-03 4.000E-04 2.100E-03 0.9153 1.639E-04 36.248 n <t< td=""><td>п-Нехапе</td><td>98</td><td>0.335</td><td>1.200E-03</td><td>2.000E-04</td><td>1.000E-03</td><td>0.9153</td><td>1.093E-03</td><td>36,248</td><td>2.472E-06</td><td>29</td><td>8.525E-08</td></t<>	п-Нехапе	98	0.335	1.200E-03	2.000E-04	1.000E-03	0.9153	1.093E-03	36,248	2.472E-06	29	8.525E-08
rife 64 ND ND ND ND ND ND 36,248 ane 84 ND ND ND ND ND 36,248 tane 84 0.143 5,000E-04 2,000E-04 3,000E-04 0.9153 3,278E-04 36,248 tane 100 0.300 1,250E-03 1,000E-04 1,150E-03 0.9153 1,256E-03 36,248 84 0,0086 3,000E-04 1,000E-04 3,000E-04 3,000E-03 3,000E-04 3,	trans-2-Hexene	8	9	Q	2	Q	0.9153	2	36,248	Q	29	Q
ane 64 0.143 5.000E-04 2.000E-04 3.00E-03 0.9153 3.078E-04 36,248 tane 100 0.300 1.250E-03 1.000E-04 1.150E-03 0.9153 3.278E-04 36,248 tane 100 0.300 1.250E-03 1.000E-04 1.150E-03 0.9153 1.256E-03 36,248 100 0.086 3.000E-04 4.000E-04 1.100E-04 0.9153 4.425E-03 36,248 100 0.086 4.000E-04 1.000E-04 0.9153 0.9153 ND 36,248 1ane 100 0.553 2.300E-03 2.000E-04 2.100E-03 0.9153 3.229E-04 36,248 100 0.553 2.300E-04 4.000E-04 2.100E-03 0.9153 2.294E-03 36,248 100 0.132 5.500E-04 4.000E-04 1.500E-04 0.9153 1.639E-04 36,248	Z-Meinyl-Z-pentene	84	2 2	2 2	ON C	2	0.9153	0 5	36,248	Q	29	Q
100 0.132 5.500E-04 1.500E-04 1.500E-04 0.9153 3.278E-04 36,248 36	Mothale and an analysis	\$ 2	NO.	ON LOSS	ON COOL	ON 1000	0.9153	ON STOCK	36,248	UN TELL	53	ON
Total Tota	2 4-Dimethylpentane	\$ 2	0.300	1.250E-04	1 000E-04	3.000E-04	0.9153	3.276E-04	36,240	7.4175-07	67	2.558E-08
lane 100 0.553 2.300E-04 4.000E-04 1.000E-04 0.9153 4.75E-04 36.248 100 0.0553 2.300E-04 3.000E-04 0.9153 3.278E-04 36.248 100 0.553 2.300E-03 2.000E-04 2.100E-03 0.9153 2.294E-03 36,248 100 0.132 5.500E-04 4.000E-04 1.500E-04 0.9153 1.639E-04 36,248	Benzene	787	1 464	4 750E-03	7 000 1-04	A 050E-03	0.9150	4 425E-03	26.748	4 001E 05	62	3 4525 07
tane 100 0.096 4.000E-04 1.000E-04 3.000E-04 3.000E-04 3.000E-04 3.000E-04 3.0278E-04 36.248 100 0.553 2.300E-03 2.000E-04 2.100E-03 0.9153 2.294E-03 36.248 100 0.132 5.500E-04 4.000E-04 1.500E-04 0.9153 1.639E-04 36.248	Cyclohexane	42	0.086	3.000F-04	4 000F-04	-1 000E-04	0.9153	NO JOSE CO	36.248	CN	3 8	S-ICE
tane 100 0.553 2.300E-03 2.000E-04 2.100E-03 0.9153 2.294E-03 36.248 36.248 1500E-04 0.9153 1.639E-04 36.248	2-Methylhexane	8	0.096	4.000E-04	1.000E-04	3.000E-04	0.9153	3.278E-04	36.248	7.417E-07	53	2.558E-08
100 0.132 5.500E-04 4.000E-04 1.500E-04 0.9153 1.639E-04 36,248	2,3-Dimethylpentane	100	0.553	2.300E-03	2.000E-04	2.100E-03	0.9153	2.294E-03	36,248	5.192E-06	29	1.790E-07
2000	3-Methylhexane	100	0.132	5.500E-04	4.000E-04	1.500E-04	0.9153	1.639E-04	36,248	3.708E-07	29	1.279E-08
114 0.938 4.30E-03 5.000E-04 3.950E-03 0.9153 4.316E-03 36,248	2,2,4-Trimethylpentane	114	0.938	4.450E-03	5.000E-04	3.950E-03	0.9153	4.316E-03	36,248	9.766E-06	29	3.367E-07
												l

TABLE A-6. AEC - VOC RUN NO. 1 DATA FOR BOOBY TRAP FLASH TEST (28 MARCH 1998)

Compound (a) n-Heptane 2.4.4-Trimethyl-1-pentene 2.4.4-Trimethyl-2-pentene 2.5-Dimethylhexane 2.5-Dimethylhexane 2.3-Trimethylbentane Toluene 2.3-Dimethylpentane 2.3-Dimethylexane 2.3-Dimethylexane 2.3-Bimethylexane 2.4-Inhylhexane 3.4-Inhylexane 3.4-Inhylexane 3.4-Inhylexane 3.4-Inhylexane 3.5-Bimethylexane 3.5-Bimethylexane 3.5-Bimethylexane 3.5-Bimethylexane		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Average Concentration -	Concentration,	Corrected Concentration -	Correction Eactor (h) %	Concentration •	Initial Plume	Material - Run	Number of tems	1. Ib/item
2.4.4-Trimetryl-1-pentene 2.4.4-Trimetryl-1-pentene 2.4.4-Trimetryl-2-pentene 2.4.6-Trimetryl-2-pentene 2.4.5-Trimetrylpexane 2.3.4-Trimetrylpentane Toluene 2.3.4-Trimetrylpentane 2.3.4-Trimetrylpentane 3.3.4-Trimetrylpexane 3.3.5-Trimetrylpexane 3.3.5-Trimetrylpexane 3.3.5-Trimetrylpexane 3.3.5-Trimetrylpexane 3.3.5-Trimetrylpexane 3.3.5-Trimetrylpexane	5	and i, book	4 000E-04	2 000E-04	2 000E-04	0.9153	2.185E-04	36.248	4.945E-07	29	1.705E-08
Methylcyclohexane 2.4.4.Trimethyl-2-pentene 2.5.Dimethylhexane 2.3.4.Trimethylpexane 2.3.4.Trimethylpertane Toluene 2.3.4.Trimethylpertane 3.3.4.Trimethylexane 3.3.Ehmethylexane 3.3.Ehmethylexane 3.4.Trimethylexane 3.4.Trimethylexane 3.5.Bythylexane 3.5.Bythylexane 3.5.Bythylexane	3 2	GN	ON ON	QN	QN	0.9153	2	36,248	Q	59	Q
2.4.4-Trimethyl-2-pentene 2.5-Dimethylhexane 2.4-Uimethylhexane 2.3.4-Trimethylpentane 2.3.4-Trimethylpentane 2.3-Dimethylhexane 2.Methylhexane 3-Methylhexane 3-Ethylhexane	86	0.049	2.000E-04	1.000E-04	1.000E-04	0.9153	1.093E-04	36,248	2.472E-07	29	8.525E-09
2.5-Dimethylhexane 2.4-Dimethylhexane 2.3.4-Trimethylpentane 2.3-Dimethylpexane 2.3-Dimethylhexane 2-Methylhexane 3-Eltythexane	112	Q	ON	Q	QN	0.9153	QN	36,248	QN	29	Q
2.4-Dimethylhexane 2.3.4-Trimethylpentane Toliuene 2.4-Dimethylhexane 2.Methylhexane 3-Ehylhexane	114	0.063	3.000E-04	DN	3.000E-04	0.9153	3.278E-04	36,248	7.417E-07	29	2.558E-08
2.3,4-Trimethylpentane Toluene Z-A-Drinethylhexane Z-Methylhexane 3-Ethylhexane	114	0.095	4.500E-04	QN	4.500E-04	0.9153	4.916E-04	36,248	1.113E-06	29	3.836E-08
Toluene 2.3-Uninethylhexane 2.4-Methylheptane 3-Ehythexane	114	0.190	9.000E-04	1.000E-04	8.000E-04	0.9153	8.740E-04	36,248	1.978E-06	29	6.820E-08
2,3-Dimethylhexane 2-Methylheptane 3-Ethylhexane	.26	0.784	3.000E-03	8.000E-04	2.200E-03	0.9153	2.404E-03	36,248	5.439E-06	29	1.876E-07
2-Methylheptane 3-Ethylhexane	114	0.084	4.000E-04	QN	4.000E-04	0.9153	4.370E-04	36,248	9.889E-07	29	3.410E-08
3-Ethythexane	111	0.054	2.500E-04	QN	2.500E-04	0.9153	2.731E-04	36,248	6.181E-07	53	2.131E-08
	114	QN		Q	QN	0.9153	Q	36,248	2	53	2
2,2-Dimethytheptane	128	Q	9	Q	Q	0.9153	Q	36,248	Q	53	ON
2,2,4-Trimethylhexane	128	0.056	3.000E-04	Q	3.000E-04	0.9153	3.278E-04	36,248	7.417E-07	53	2.558E-08
n-Octane	114	0.032	1.500E-04	1.000E-04	5.000E-05	0.9153	5.463E-05	36,248	1.236E-07	82	4.263E-09
Ethylcyclohexane	112	9	2	Q	Q	0.9153	Q	36,248	ON STATE	S S	ON LINE
Ethylbenzene	9	0.060	4.000E-04	2.000E-04	2.000E-04	0.9153	2.185E-04	36,248	4.945E-07	80	1.705E-08
m-Xylene & p-Xylene	90	0.204	9.000E-04	4.000E-04	5.000E-04	0.9153	5.453E-04	30,240	1.2305-00	67	4.2035-00
Styrene	2	0.162	7.000E-04	QN	7.000E-04	0.9153	7.648E-04	36,248	1.731E-06	R) 8	5.958E-08
o-Xylene	8	0.091	4.000E-04	2.000E-04	2.000E-04	0.9153	2.1855-04	30,248	4.945E-U/	S) S	4 262 108
n-Nonane	128	0.094	5.000E-04	2 5	5.000E-04	0.9153	3.403E-04	30,240	1.2305-00	83	4.203E-00
i-Propylbenzene	120	2	2	2	25	0.9153	22	30,240	2 2	63	2 2
n-Propytbenzene	120	2 2	2 2	2 2	ON CA	0.9155	2 2	36.248	2 5	200	2
p-Ernylloluene	2 5	2 2	22	2 2	S CN	0.9133	2 2	36.248	S	200	Ş
III-EIII)NOUEIIE	2 5	2 2	2 2	2 5	S	0.9153	CZ	36.248	CN	29	QV
1,5,5-1 mileutynoenzene	2 5	2 5	2 5	2 2	S	0.0153	CN	36.248	CN	29	Q
o-Enlywordene	OS,					8			20	1 8	100.
1,2,4-Trimethylbenzene & sec-Butylbenzene	120	0.060	3.000E-04	1.000E-04	2.000E-04	0.9153	2.185E-04	36,248	4.945E-0/	S S	1.705=-08
n-Decane	142	QV.	QN .	2	2	0.9153	2	30,248	2 2	S S	2 2
alpha-Pinene	136	2	Q	9	2	0.9153	S	36,248	2	S S	
beta-Pinene	136	2	QN S	2	2	0.9153	2 2	30,248	2 2	S C	22
delta 3-Carene	136	2 9	2 5	2	2 2	0.9153		30,240	2 2	200	2 2
d-Limonene	280	ON O	NO 14001	NO BOOK	ND 3000 4	0.9133	7 648E-04	36 248	1 731E.06	200	5 968F-08
MIDE	3 62	200	NO.	NO	NO.	0.9153	CN	36.248	QN	29	Q
Dichlorodifluoromethane	120	0.305	1.520E-03	3.698E-04	1.150E-03	0.9153	1.257E-03	36,248	2.844E-06	29	9.807E-08
Methylchloride	20	Q	QN	Q	Q	0.9153	QN	36,248	QN	59	QN
Dichlorotetrafluoroethane	171	9	QN	QN	QN	0.9153	QN	36,248	QN	29	Q
Chloroethene	63	0.057	1.492E-04	QN	1.492E-04	0.9153	1.630E-04	36,248	3.688E-07	29	1.272E-08
1,3-Butadiene	54	0.408	9.154E-04	2.034E-04	7.120E-04	0.9153	7.779E-04	36,248	1.760E-06	29	6.070E-08
Methylbromide	95	QN	QN	QN	QN	0.9153	QN	36,248	Q	29	Q
Ethylchloride	64.5	QN	QN	QN	QN	0.9153	Q	36,248	Q	53	Q
Trichloromonofluoromethane	137	0.436	2.482E-03	Q	2.482E-03	0.9153	2.712E-03	36,248	6.137E-06	53	2.116E-07
Vinylidenechloride	97	Q	QN	Q	Q	0.9153	Q	36,248	Q	53	2
Methylenechloride	85	1.649	5.830E-03	4.948E-04	5.335E-03	0.9153	5.829E-03	36,248	1.319E-05	S2 53	4.548E-07
Allyichloride	76.5	QN	Q	2	2	0.9153	QN	36,248	ON I	RZ S	
1,1,2-Trichloro-1,2,2-trifluoroethane	188	0.110	8.615E-04	8.561E-04	5.384E-06	0.9153	5.882E-06	36,248	1.3315-08	SZ SZ	4.590E-10
1,1-Dichloroethane	66	2	Q	2	2	0.9153	2 2	30,248	2 2	67	2 2
1,2-Dichloroethene	76	2	2 5	2	2 5	0.9153	2 2	30,240	2 2	67	2 2

TABLE A-6. AEC - VOC RUN NO. 1 DATA FOR BOOBY TRAP FLASH TEST (28 MARCH 1998)

		Average	Average	Background -	Background Corrected	Dilution	Corrected		Sample Total		Corrected Emission
Compound (a)	Weight	Run 1, ppbv	Run 1, mg/m³	mg/m³	Run 1, mg/m³	Factor (b), %	Run 1, mg/m³	Volume, ft	Materiai - Hun 1, lb	Number of Items	1, ib/item
1,2-Dichloroethane	66	ND	ĠN	QN	ON	0.9153	QN	36,248	Q	53	Q
Methylchloroform	133	0.068	3.770E-04	3.374E-04	3.957E-05	0.9153	4.323E-05	36,248	9.784E-08	29	3.374E-09
Benzene	78	1.489	4.831E-03	7.120E-04	4.119E-03	0.9153	4.501E-03	36,248	1.018E-05	29	3.512E-07
Carbontetrachloride	154	0.121	7.722E-04	6.288E-04	1.434E-04	0.9153	1.567E-04	36,248	3.546E-07	59	1.223E-08
1,2-Dichloropropane	113	Q	Q	QN	ND	0.9153	Q	36,248	Q.	53	QN
Trichloroethylene	133	Q	Q	Q	ND	0.9153	ND	36,248	QN	29	QN
cis 1,3-Dichloro-1-propene	111	QN	ON	QN	ND	0.9153	ON	36,248	QN	29	QN
trans 1,3-Dichloro-1-propene	111	QN	ON	QN	ND	0.9153	QN	36,248	Q	53	9
1,1,2-Trichloroethane	133	QN	QN	ON	ON	0.9153	QN	36,248	QN	29	QV
Toluene	92	0.797	3.051E-03	8.137E-04	2.238E-03	0.9153	2.445E-03	36,248	5.532E-06	29	1.908E-07
1,2-Dibromoethane	188	Q	QN	Q	Q	0.9153	QV	36,248	QN	29	QN
Perchloroethylene	166	Q	Q	Q	Q	0.9153	QV	36,248	QN	29	QN
Chlorobenzene	113	Q	Q	Q	ND	0.9153	Q	36,248	Q.	29	QN
Ethylbenzene	160	0.092	6.141E-04	Q	6.141E-04	0.9153	6.709E-04	36,248	1.518E-06	53	5.235E-08
m&p-Xylene	136	0.186	8.197E-04	3.658E-04	4.539E-04	0.9153	4.959E-04	36,248	1.122E-06	53	3.870E-08
1 1 2 3 Totrophorophone	3 3	0.086	3.721E-04	2	3.721E-04	0.9153	4.066E-04	36,248	9.200E-07	53	3.172E-08
1,1,2,2-1 enacmorpernane	90	ON SO	ON SOL	2 2	ON O	0.9153	ON .	36,248	QN ISS	53	QN
o-Aylene	2 5	0.092	4.068E-04	2 5	4.068E-04	0.9153	4.445E-04	36,248	1.006E-06	53	3.468E-08
p-Emyroluene	120	2 5	2 2	2	Q S	0.9153	2	36,248	Q S	53	Q :
1,3,3-1 milemyibenzene	220	350.0	ON COLUMN	2 2	ON S	0.9153	ON COLOR	36,248	ON S	53	QN
Repailchloide	120	COU.O	3.2555-04	2 2	3.255E-04	0.9153	3.556E-04	36,248	8.047E-07	53	2.775E-08
m-Dichlorobarsana	147	2 2	2 2	2 2	2 2	0.9153	2 2	35,248	2 9	S. S	2
Dishlorobonzono	147	2 2	2 2	2 2	2 2	0.9153	2	35,248	2	62	
O-Dichlorobanzana	147	O C	2 2	2 2	2 2	0.9153	2 2	35,248	2	57	2 5
1 2 4-Trichlorobenzene	18	2 5	2 2	2 2	2 2	0.9153	2	30,240	2 2	8	2 2
Hexachiorobutadiene	261	S S	2 2	2 5	2 2	0.9153	2 2	36.248	2 2	60	2 2
Phenylacetylene	102	0.057	2.424E-04	S	2.424F-04	0.9153	2 648F-04	36.248	5 993E-07	5 00	2 066E.08
Indane	118	QN	Q	Q	Q	0.9153	2	36.248	QN	29	QN
2,3-Dihydro-1-methyl-1H-indene	132	QN	Q	Q	Q	0.9153	ON	36,248	Q	53	Q
2,3-Dihydro-4-methyl-1H-indene	132	QN	ON	QN	QN	0.9153	Q	36,248	QN	29	QN
Naphthalene	128	0.134	7.156E-04	ON	7.156E-04	0.9153	7.818E-04	36,248	1.769E-06	53	6.101E-08
2-Methylnaphthalene	142	Q	QN	QN	ON	0.9153	QN	36,248	QN	29	QN
1-Methylnaphthalene	142		2	2	Q	0.9153	2	36,248	Q	29	QN
Cyanogen	52	1	ND ATTEN	2 2	ON STATE OF	0.9153	ON	36,248	QN S	53	Q
Acabaitella	5		0.1//0.04	2 2	0.17.04	0.9153	0.749E-04	35,248	1.52/E-06	62	5.266E-08
Acylonitrile	£3	0.202	3.440E-04	2 2	3.440E-04	0.9153	3.758E-04	36,248	8.504E-07	53	2.932E-08
Nitromethana	3 2	Ī	6.303E-04	2 5	6.303E-04	0.9133	3.201E-04	30,240	1.3/9E-0/	67 8	2.545E-08
Propanentrile	55		CN	2 5	to CN	0.9153	NO CN	36.248	NO -1895	600	3.639E-U8
2-Methylpropanenitrile	69	2	2	200	2	0.9153	9	36.248	2 2	800	2 2
Pentanenitrile	83	ON	NO.	Q	2	0.9153	Q	36,248	S	50	S
Hexanenitrile	97	Q	Q	Q	Q	0.9153	Q	36,248	9	29	2
Benzonitrile	103	0.054	2.302E-04	Q	2.302E-04	0.9153	2.516E-04	36,248	5.692E-07	59	1.963E-08
2-Nitrophenol	139	QN	QN	Q	Q	0.9153	QN	36,248	QV	29	Q.
Acrolein	26	0.805	1.874E-03	QN	1.874E-03	0.9153	2.048E-03	36,248	4.634E-06	53	1.598E-07
Acetone	56	2.855	6.650E-03	5.352E-03	1.298E-03	0.9153	1.418E-03	36,248	3.209E-06	29	1.107E-07
1-Hydroxy-2-propanone	74	Q		Q	QN	0.9153	QN	36,248	QN	59	QV
Furan	88 8	0.063	1.779E-04	Q.	1.779E-04	0.9153	1.944E-04	36,248	4.399E-07	53	1.517E-08
Z-riopano	8	2	ON.	ON	Q.	0.9153	ON	36,248	QN	29	Q

TABLE A-6. AEC - VOC RUN NO. 1 DATA FOR BOOBY TRAP FLASH TEST (28 MARCH 1998)

	Molecular	Average Concentration -	Average Concentration -	Background - Concentration,	Background Corrected Concentration -	Dilution Correction	Corrected Concentration -	Initial Plume	Sample Total Material - Run	Number of	Corrected Emission Factor - Run
Compound (a)	Weight	Run 1, ppbv	Run 1, mg/m²	_ mg/m_	Run 1, mg/m³	Factor (b), %	Run 1, mg/m³	Volume, ft		Items	1, lb/item
2-Methylpropanal	74	ON	QN	ON	QN	0.9153	QN	36,248	QN	29	Q
1-Propanol	90	ON	QN	ON	ON	0.9153	QN	36,248	QN	62	Q
Methacrolein	70	ON	QN	QN	ND	0.9153	QN	36,248	QN	62	Q
Methyl-vinyl Ketone	70	QN	QN	QN	ON	0.9153	QN	36,248	QN	59	Q
MTBE	88	0.283	1.034E-03	1.839E-04	8.503E-04	0.9153	9.290E-04	36,248	2.102E-06	53	7.249E-08
2,3-Butanedione	98	QN	QN	QN	ND	0.9153	ND	36,248	QN	53	QN
Butanal	72	0.131	3.928E-04	3.210E-04	7.179E-05	0.9153	7.843E-05	36,248	1.775E-07	29	6.120E-09
2-Butanone	72	0.523	1.568E-03	8.692E-04	6.984E-04	0.9153	7.630E-04	36,248	1.727E-06	53	5.954E-08
2-Methyl-1,3-dioxolane	88	ON	QN	QN	QN	0.9153	ND	36,248	QN	29	Q
2-Methylfuran	82	ON	QN	QN	ON	0.9153	ND	36,248	QN	53	Q
Tetrahydrofuran	72	Q	Q	ND	ON	0.9153	ND	36,248	ON	29	QN
trans-2-Butenal	70	0.137	3.977E-04	ON	3.977E-04	0.9153	4.345E-04	36,248	9.832E-07	29	3.391E-08
Acetic Acid	09	1.134	2.832E-03	8.137E-04	2.018E-03	0.9153	2.205E-03	36,248	4.989E-06	29	1.720E-07
1-Butanol	74	ON	QN	QN	QN	0.9153	QN	36,248	QN	29	Ð
2-Pentanone	98	0.084	2.989E-04	2.374E-04	6.151E-05	0.9153	6.720E-05	36,248	1.521E-07	29	5.244E-09
Pentanal	98	0.460	1.645E-03	1.306E-03	3.395E-04	0.9153	3.709E-04	36,248	8.393E-07	59	2.894E-08
1,4-Dioxane	88	Q	Q	ND	QN	0.9153	QN	36,248	QN	53	QN
Methyl Methacrylate	8	Q	QN	NO	QN	0.9153	ON	36,248	QN	59	Q
Cyclopentanone	84	QV	QV	QN	ON	0.9153	ON	36,248	QN	29	QN
Hexanal	8	0.320	1.330E-03	9.985E-04	3.311E-04	0.9153	3.617E-04	36,248	8.185E-07	29	2.822E-08
2-Furaldehyde	96	0.327	1.307E-03	4.095E-04	8.976E-04	0.9153	9.806E-04	36,248	2.219E-06	29	7.652E-08
Cyclohexanone	86	0.055	2.235E-04	QN	2.235E-04	0.9153	2.442E-04	36,248	5.526E-07	29	1.906E-08
Heptanal	114	0.273	1.293E-03	8.661E-04	4.274E-04	0.9153	4.669E-04	36,248	1.057E-06	29	3.643E-08
2-Butoxyethanol	118	QV	QN	Q	ON	0.9153	ON	36,248	QN	29	QV
Benzaldehyde	106	0.516	2.277E-03	1.153E-03	1.124E-03	0.9153	1.228E-03	36,248	2.780E-06	29	9.586E-08
6-Methyl-5-hepten-2-one	126	Q	QN	NO	ON	0.9153	ON	36,248	QN	29	2
Octanal	128	0.583	3.105E-03	2.207E-03	8.986E-04	0.9153	9.818E-04	36,248	2.222E-06	29	7.661E-08
Benzofuran	118	Q	Q	ON	QN	0.9153	ON	36,248	QN	29	QN
2-Ethyl-1-hexanol	120	Q	QN	ON	QN	0.9153	QN	36,248	QN	29	Q
Acetophonone	120	0.074	3.716E-04	QN	3.716E-04	0.9153	4.060E-04	36,248	9.187E-07	29	3.168E-08
Nonanal	142	0.830	4.906E-03	2.870E-03	2.036E-03	0.9153	2.224E-03	36,248	5.033E-06	29	1.735E-07
Decanal	156	0.710	4.607E-03	3.192E-03	1.415E-03	0.9153	1.546E-03	36,248	3.499E-06	29	1.206E-07
Carbonyl Sulfide	8	0.159	3.974E-04	2.525E-04	1.449E-04	0.9153	1.583E-04	36,248	3.582E-07	29	1.235E-08
Carbon Disulfide	92	10.944	3.460E-02	1.143E-03	3.346E-02	0.9153	3.656E-02	36,248	8.272E-05	29	2.852E-06
Thiophene	84	0.119	4.147E-04	Ð	4.147E-04	0.9153	4.531E-04	36,248	1.025E-06	29	3.535E-08
Dimethyldisulfide	94	ON	QN	QV	Q	0.9153	ND	36,248	QN	29	Q

Compounds in bold represent duplicate values.

b Estimated from tracer data as presented in Volume IV.

TABLE A-7. AEC - SVOC DATA EVALUATION FOR BOOBY TRAP FLASH TEST (28 MARCH 1998)

	Average	Average	Average Background	Average Maximum Detection Limit -	Average Minimum Detection Limit -	Background	Minimum Detection Limit	Backaround	Minimum Detection Limit
Compound	Concentration - Run 1, mg/m³	Concentration - Run 1, mg/m³	Concentration, mg/m³	Concentration, mg/m³	Concentration, mg/m³	Evaluation Criteria	Evaluation Criteria	Evaluation Notes	Evaluation Notes
Particulate/Vapor-phase SVOCs									
N-Nitrosodimethylamine	QN	QN	ND	1.565E-04	1.565E-04	ON	QN	Э	F
Pyridine	QN	ΩN	ND	4.588E-04	4.588E-04	ON	QΝ	4	ட
2-Picoline	QN	QN	ND	4.768E-04	4.768E-04	QN	QN	Э	Ц
Methyl methanesulfonate	QN	QN	ON	1.804E-04	1.804E-04	QN	QN	ш	Ŀ
N-Nitrosomethylethylamine	ND	QN	ND	3.581E-04	3.581E-04	QN	ΩN	4	F
N-Nitrosodiethylamine	QN	QN	QN	3.824E-04	3.824E-04	QN	QN	u.	ட
Ethyl methanesulfonate	QN	QN	ND	1.759E-04	1.759E-04	QN	QN	Ь	Ł
Phenol	QN	ΩN	QN	1.125E-04	1.125E-04	Q	Q	u.	ш
Aniline	QN	QN	QN	1.795E-04	1.795E-04	QN	QN	ш	ட
bis(2-Chloroethyl)ether	QN	QN	QN	1.403E-04	1.403E-04	2	Q	ш	L
Pentachloroethane	QV	Q	QN	3.243E-04	3.243E-04	Q	Q	ш	ļL.
2-Chlorophenol	QN	QΝ	QV	7.152E-05	7.152E-05	Q.	QN	ட	u_
1,3-Dichlorobenzene	ND	an	ND	1.381E-04	1.381E-04	QN	QN	Э	IL.
1,4-Dichlorobenzene	QN	QN	QN	2.771E-04	2.771E-04	Q	Q	ட	ш.
Benzyl alcohol	QN	ΩN	QN	3.135E-04	3.135E-04	2	QN	ц.	Щ
2-Methylphenol	QN	QN	QN	2.524E-04	2.524E-04	2	Q	L.	L
1,2-Dichlorobenzene	QN	QN	QN	2.006E-04	2.006E-04	Q	Q	ц.	LL.
bis(2-Chloroisopropyl)ether	ON	QN	QN	1.691E-04	1.691E-04	QN	QN	ш	ı
o-Toluidine	ND	QN	ND	1.781E-04	1.781E-04	QN	QN	4	ш
4-Methylphenol/3-Methylphenol	QN	QN	ND	2.132E-04	2.132E-04	ND	QN	F	T.
N-Nitroso-di-n-propylamine	Q	Q	NO NO	1.264E-04	1.264E-04	ND	ND	F	<u>ተ</u>
Acetophenone	3.623E-04	3.623E-04	2.808E-04	1.327E-04	1.327E-04	1.29	2.73	D	၁
N-Nitrosomorpholine	QN	QN	QN	4.044E-04	4.044E-04	Q	Q	ட	ш
N-Nitrosopyrrolidine	QV	QN	ΝD	5.353E-04	5.353E-04	QN	ON	1	ı.
Hexachloroethane	Q	QN	Q	2.222E-04	2.222E-04	S	QN	4	F
Nitrobenzene	QN	QN	QN	4.008E-04	4.008E-04	Q	QN	ட	ш
N-Nitrosopiperidine	ND	Q	QN	3.279E-04	3.279E-04	Q	Q	Щ	ட
Isophorone	DN	ΩN	Q	9.627E-05	9.627E-05	Q	2	щ	ш
2,4-Dimethylphenol	QN	QN	Q	1.516E-04	1.516E-04	Q	Q	ட	ц
2-Nitrophenol	QN	Q	QN	2.411E-04	2.411E-04	QN	Q	ц.	Ľ.
bis(2-Chloroethoxy)methane	QN	Q	NO	1.759E-04	1.759E-04	Q	QN	Ш	Ц
Benzoic acid	Q	QN	Q	1.646E-02	1.646E-02	QN	ND	F	ı.
2,4-Dichlorophenol	Q	QN	ND	2.204E-04	2.204E-04	ND	ON	ı	ı.
1,2,4-Trichlorobenzene	ND	ON	ND	1.588E-04	1.588E-04	ND	QN	H H	ட
Naphthalene	3.006E-04	3.006E-04	ND	2.011E-04	2.011E-04	10.00	1.49	¥	۵
p-Chloroaniline	ND	ON	ND	1.448E-04	1.448E-04	QN	QN	4	u.
2,6-Dichlorophenol	ND	ON	ON	1.547E-04	1.547E-04	QN	QN	4	Н
Hexachloropropene	Q	Q	ND	2.542E-04	2.542E-04	QN	ND	F	ı
Hexachlorobutadiene	ND	ON	ND	2.294E-04	2.294E-04	QN	QN	F	ட
Dimethylphenethylamine	ND	QN	QN	9.177E-03	9.177E-03	QN	QN	F	և
N-Nitroso-di-n-butylamine	S	Q	NO	1.682E-04	1.682E-04	QN	QN	F	u.
								1	t

TABLE A-7. AEC - SVOC DATA EVALUATION FOR BOOBY TRAP FLASH TEST (28 MARCH 1998)

	Average Concentration -	Average Concentration -	Average Background - Concentration,	Average Maximum Detection Limit - Concentration,	Average Minimum Detection Limit - Concentration,	Background Evaluation	Minimum Detection Limit Evaluation	<u>8</u> ú	Minimum Detection Limit Evaluation
Compound	Run 1, mg/m²	Run 1, mg/m³	mg/m³	mg/m³	mg/m³	Criteria	Criteria	Notes	Notes
4-Chloro-3-methylphenol	QN	QN	QN	2.551E-04	2.551E-04	ND	ND	4	F
Safrole	QN	QN	QN	3.198E-04	3.198E-04	ND	ND	ч	F
2-Methylnaphthalene	QN	QN	QN	1.615E-04	1.615E-04	QN	QN	ч.	4
1,2,4,5-Tetrachlorobenzene	QN	QN	QN	2.456E-04	2.456E-04	QN	QN	ш.	ш
Hexachlorocyclopentadiene	QN	QN	QN	4.993E-03	4.993E-03	Q	QN	ц.	ட
2,4,6-Trichlorophenol	QV	QN	S	2.838E-04	2.838E-04	2	S	u.	ı
2,4,5-Trichlorophenol	QN	QN	QN	2.411E-04	2.411E-04	Q	S	ш.	L
Isosafrole	Ð	QN	Q	4.858E-04	4.858E-04	2	Q	L.	L
2-Chloronaphthalene	Q	QN	Q	2.537E-04	2.537E-04	Q	QV	ш	ш
2-Nitroaniline	2	QN	2	1.610E-04	1.610E-04	9	2	ш	Ŀ
1,4-Naphthoquinone	QN	QN	S	4.498E-04	4.498E-04	9	Q	u.	L
Dimethylphthalate	2	QN	Q	1.309E-04	1.309E-04	QN	Q	u.	ıL
1,3-Dinitrobenzene	QN	QN	Q	3.765E-04	3.765E-04	9	Q	L	L
2,6-Dinitrotoluene	9	QN	2	3.167E-04	3.167E-04	Q	Q	ш	L
Acenaphthylene	QN	QN	S	1.471E-04	1.471E-04	Q	2	L	L
3-Nitroaniline	QN	QN	Q	3.963E-04	3.963E-04	Q	Q	ш	L
4-Nitrophenol	ON	ΩN	Q	1.381E-02	1.381E-02	QN	9	ட	L
2,4-Dinitrophenol	ON	QN	ON	1.417E-02	1.417E-02	QN	QN	ш	4
Acenaphthene	QV	DN	ON	1.619E-04	1.619E-04	QN	QN	4	L
2,4-Dinitrotoluene	QN	QN	QN	2.002E-04	2.002E-04	DN	QN	F	F
Dibenzofuran	QN	ON	QN	1.098E-04	1.098E-04	ND	QN	Ŧ	4
Pentachlorobenzene	2	Q	Q	3.032E-04	3.032E-04	Q	Q	u.	L
I-Naphthylamine	9	QN	Q	7.917E-04	7.917E-04	Q	Q	ட	ட
2-Naphthylamine	Q	QQ	QN	7.017E-04	7.017E-04	Q	Q	ட	ட
2,3,4,6-1 etrachlorophenol	Q	QN	Q	3.212E-04	3.212E-04	Q	QN	ш	ш
Diethylphthalate	2.532E-04	2.532E-04	4.340E-04	1.170E-04	1.170E-04	0.58	2.17	ц.	O
4-Chlorophenylphenyl ether	2	QN	Q	1.273E-04	1.273E-04	2	Q	ц.	L
Fluorene	2	QN	Q	1.529E-04	1.529E-04	2	Q	LL.	ш
5-Nitro-o-toluidine	2	QN	Q	1.633E-04	1.633E-04	2	QN	u.	ш
4-Nitroaniline		ON S	Q S	3.486E-04	3.486E-04	2	2	ш. Г	u. 1
4,o-Uinitro-z-metnyipnenoi	2	ON.	QN.	1.224E-02	1.224E-02	Q	QN	μ.	u.
Upnenylamine/N-NitrosoUPA	Q C	QN 2	Q S	1.655E-04	1.655E-04	Q	2	щ	ш і
sym-i nniiropenzene	2	ON.	Q.	5.623E-04	5.623E-04	Q	QN	_	_
Diallate	2	QN	Q	2.137E-04	2.137E-04	Q	2	ட	ц
Phenacetin	2	QN	QN	1.008E-04	1.008E-04	Q	Q	ш	ш
4-Bromophenylphenyl ether	2	QN	Q	3.099E-04	3.099E-04	Q	Q	ш	L
Hexachlorobenzene	2	Q	QN	1.669E-04	1.669E-04	Q	QN	ட	ட
4-Aminobiphenyl	2	QN	Q	9.312E-04	9.312E-04	Q	Q	щ	ட
Pronamide	Q	S	QN	1.156E-04	1.156E-04	Q	ND	щ	T.
Pentachlorophenol	2	Q	Q	1.296E-02	1.296E-02	Q	Q	u.	u.
Pentachloronitrobenzene	2	QN	QN	6.028E-04	6.028E-04	2	QN	ц.	tL.
Phenanthrene	2	QN	Q	2.744E-04	2.744E-04	2	ND	ш.	F
Anthracene	QN	QN	ND	1.646E-04	1.646E-04	2	9	ш.	L

TABLE A-7, AEC - SVOC DATA EVALUATION FOR BOOBY TRAP FLASH TEST (28 MARCH 1998)

	Average Concentration -	Average Concentration -	Average Background - Concentration.	Average Maximum Average Minimum Detection Limit - Concentration.	Average Minimum Detection Limit - Concentration.	Background	Minimum Detection Limit Evaluation	Background Evaluation	Minimum Detection Limit Evaluation
Compound	Run 1, mg/m³	Run 1, mg/m³	mg/m³	mg/m³	mg/m³	Criteria	Criteria	Notes	Notes
Carbazole	QN	QN	NO NO	1.102E-04	1.102E-04	ND	QN	L	F
Di-n-butylphthalate	1.436E-03	1.436E-03	7.766E-04	7.647E-05	7.647E-05	1.85	18.78	O	A
4-Nitroquinoline-1-oxide	QN	Q	QV	1.012E-02	1.012E-02	ND	QN	Ł	ட
Methapyrilene	QV	QN	QN	9.312E-03	9.312E-03	ND	QN	u.	ட
Fluoranthene	QN	Q.	2	1.624E-04	1.624E-04	ND	QN	ш	ட
Benzidine	Q	2	QN	6.028E-03	6.028E-03	ND	QN	Œ.	u.
Pyrene	S	2	ON	2.231E-04	2.231E-04	ND	QN	ш	ட
p-Dimethylaminoazobenzene	QV	Ð	QN	1.655E-04	1.655E-04	ND	DN	F	u.
Chlorobenzilate	QN	Q	QN	2.303E-04	2.303E-04	ND	QN	F	ш
Kepone	QN	QN	QV	8.457E-03	8.457E-03	ND	DN	ıL	ட
Butylbenzylphthalate	3.242E-04	3.242E-04	QN	9.222E-05	9.222E-05	10.00	3.52	¥	ပ
3,3'-Dimethylbenzidine	Q	QN	QN	8.907E-04	8.907E-04	ND	Q	ш	u.
2-Acetylaminofluorene	Q	QN	ND	1.403E-04	1.403E-04	ND	QN	ш	L.
bis(2-Ethylhexyl)phthalate	9	Q	Q	5.488E-04	5.488E-04	ND	ON	ட	ш.
3,3'-Dichlorobenzidine	QV	QN	2	1.507E-04	1.507E-04	ON	QN	±.	F
Benz(a)anthracene	Q	QN	Q	2.033E-04	2.033E-04	ND	QN	ı.	ட
Chrysene	QN	QN	QN	2.195E-04	2.195E-04	ND	Q	ட	ட
Di-n-octylphthalate	QN	ON	ND	1.403E-04	1.403E-04	QN	Q	L.	L
7,12-Dimethylbenz(a)anthracene	QN	QN	ND	2.074E-04	2.074E-04	Q	2	ш	Ш
Benzo(b)fluoranthene (a)	QV	QN	QN	1.251E-04	1.251E-04	ND	ND	L.	ட
Benzo(k)fluoranthene (a)	S	Q	QN	2.614E-04	2.614E-04	ON	ON	t ı	щ
Benz(a)pyrene	2	QN	QN	1.480E-04	1.480E-04	ON	ON	u_	u.
3-Methylcholanthrene	Q	QN	QN	5.263E-04	5.263E-04	ON	ND	ட	F
Indeno(1,2,3-cd)pyrene	9	Q	QN	9.851E-05	9.851E-05	ON	ON	L.	т
Dibenz(a,h)anthracene	QN	QN	ND	1.107E-04	1.107E-04	ON	QN	ட	Ľ.
Benzo(g,h,i)perylene	QN	QN	ND	1.062E-04	1.062E-04	QN	QN	ц	L.

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

A = Identified as a contaminant (greater than or equal to 10 times background or minimum MQL)

B = Likely contaminant (less than 10 and greater than or equal to 5 times background or minimum MQL)

C = Probable contaminant (less than 5 and greater than or equal to 2 times background or minimum MQL)

D = Measured, but accuracy or presence questionable (less than 2 and greater than or equal to 1 times background or minimum MQL)

F = Not considered a contaminant (less than 1 times background or minimum MQL)

TABLE A-8. AEC - SVOC HUN NO. 1 DATA FOR BOOBY TRAP FLASH TEST (28 MARCH 1998)

Particular Properties Part	Compound	Molecular Weight	Average Concentration - Run 1, ppbv	Average Concentration - Run 1, mg/m³	Background - Concentration, mg/m³	Background Corrected Concentration - Run 1, mg/m³	Dilution Correction Factor (b), %	Corrected Concentration - Run 1, mg/m³	Initial Plume Volume, ft²	Sample Total Material - Run 1, Ib	Number of Items	Corrected Emission Factor - Run 1, lb/Item
73 ND ND ND ND OEERST ND 02243 ND 0224 ND 28 1106 ND ND ND ND 0.02871 ND 0.0284	articulate/Vapor-phase SVOCs											
159 NO	N-Nitrosodimethylamine	74	ND	ND	QN	ND	0.8281	QN	36,248	QN	29	Q
11	Pyridine	- 79	QN	QN	QV	Q	0.8281	Q	36,248	2	29	9
14.0 NO	-Picoline	93	Q	2	Q	Q	0.8281	2	36,248	9	53	2
124 NO	Aethyl methanesulfonate	110	9	9	Q.	Q	0.8281	2	36,248	2	29	2
1152 NO	I-Nitrosomethylethylamine	88	Q	9	Q	Q	0.8281	Q	36,248	Q !	29	Q.
14	I-Nitrosodiethylamine	102	2	Q !	Q	Q	0.8281	2	36,248	Q	53	2
14	thyl methanesulfonate	124	9	9	Q	2	0.8281	2	36,248	Q S	53	2
143 NO	henol	94	2	2	2	S.	0.8281	2	36,248	2	67	2 5
1.52	voiline	93	2	2	2	2 2	0.8281	2 2	36,248	2 2	53	2 2
147 NO	ils(z-chloroethyl)ether	143	2 5	2 2	25	2 2	0.8281	2 2	30,240		62	2 2
147 ND	entachloroethane	202	2	2	2	2	0.8281	2	36,248	2 5	62	2 9
147 ND	Chlorophenol	129	2	2	S	3	0.8281	2	36,248	2	65/	2 5
147 ND	,3-Dichlorobenzene	147	Q !	2	Q.	2	0.8281	2	36,248		53	Q.
108	,4-Dichlorobenzene	147	2	Q S	2	2	0.8281	2	36,248	2	52	2
147 ND	senzyi alconol	801	2	2	2	2	0.8281	2	35,248	2 9	52	2 5
177 ND ND ND ND ND ND 0.8281 ND 0.85248 ND 29	-Methylphenol	80!	2	2 5	2	2	0.8281	Q.	36,248	2	S)	2 9
107 ND ND ND ND ND 0.8221 ND 0.8224 ND	z-Uchioropenzene	14/	2	2 9	2 5	2	0.8281	2	35,248	2	R	2 9
107 ND ND ND ND ND ND ND SE281 ND 36,248 ND 29 130 ND ND ND ND 0.8281 ND 36,248 ND 29 130 ND ND ND ND 0.8281 ND 36,248 ND 29 110 ND ND ND ND ND 0.8281 ND 36,248 ND 29 110 ND ND ND ND ND 0.8281 ND 36,248 ND 29 110 ND ND ND ND ND 0.8281 ND 36,248 ND 29 1123 ND ND ND ND ND 0.8281 ND 36,248 ND 29 1123 ND ND ND ND ND 0.8281 ND 36,248 ND 29 1123 ND	is(2-Chloroisopropyi)etner	1/1	2	2	2 5	2 5	0.8281	2	36,248	2	S, S	2
130	Moth debase (2) Moth debase	20,	2 2	2 2	2 5	2 4	0.8281	2 2	35,248	2 2	82	2 2
150	-iviettiyiptierioto-iviettiyiptierioi	900	2 2	2 2	2 2	2 2	0.0201	2 2	30,240	2 2	62	2 2
115	4-Milloso-di-II-propylamine	200	CV 0	NO SECOND	DA HONE C	9 4525 05	0.020	ON O BARE OF	36.248	70-38CC C	62	7 6825.00
100 ND ND ND ND ND ND S6248 ND 25 123 ND ND ND ND 0.8281 ND 36,248 ND 29 123 ND ND ND ND ND 0.8281 ND 36,248 ND 29 122 ND ND ND ND ND ND 0.8281 ND 36,248 ND 29 122 ND ND ND ND ND 0.8281 ND 36,248 ND 29 122 ND ND ND ND 0.8281 ND 36,248 ND 29 122 ND ND ND ND ND 0.8281 ND 36,248 ND 29 181 ND ND ND ND ND 0.8281 ND 36,248 ND 29 182 ND ND ND ND<	1-Nitrosomorpholine	116	CN	ND	ND ND	ND CN	0.0281	ND ND	36.248	GN GN	3 6	NO CN
237 ND ND ND ND ND ND R5281 ND S6,248 ND 29 1133 ND ND ND ND ND ND 0,8281 ND 28 1134 ND ND ND ND ND ND 0,8281 ND 26,248 ND 29 1122 ND ND ND ND ND ND 0,8281 ND 26,248 ND 29 1122 ND ND ND ND ND 0,8281 ND 36,248 ND 29 1123 ND ND ND ND ND 0,8281 ND 36,248 ND 29 1123 ND ND ND ND ND ND 0,8281 ND 26,248 ND 29 143 ND ND ND ND ND ND 0,8281 ND 0,8248 ND <	-Nitrosonytrolidine	201	S	2	S	2	0.8281	S	36.248	S	2 8	Ę
123 ND ND ND ND 0.6281 ND 36,248 ND 29 114 ND ND ND ND 0.6281 ND 36,248 ND 29 118 ND ND ND ND ND ND 0.6281 ND 36,248 ND 29 118 ND ND ND ND ND 0.6281 ND 36,248 ND 29 112 ND ND ND ND ND 0.6281 ND 36,248 ND 29 112 ND ND ND ND 0.6281 ND 36,248 ND 29 112 ND ND ND ND ND 0.6281 ND 36,248 ND 29 112 ND ND ND ND ND 0.6281 ND 36,248 ND 29 112 ND ND ND <t< td=""><td>lexachloroethane</td><td>237</td><td>Q</td><td>S</td><td>CN</td><td>C</td><td>0.8281</td><td>S</td><td>36.248</td><td>9</td><td>500</td><td>Q</td></t<>	lexachloroethane	237	Q	S	CN	C	0.8281	S	36.248	9	500	Q
114 ND	litrobenzene	123	S	S	G.	S	0.8281	2	36.248	S	62	2
138 ND	1-Nitrosopioeridine	114	Q	2	QN	Q	0.8281	2	36.248	QV	29	Q
122 ND ND ND ND 0,8281 ND 36,248 ND 29 ane 139 ND ND ND ND 0,8281 ND 36,248 ND 29 ane 172 ND ND ND ND ND ND 29 142 ND ND ND ND ND ND 36,248 ND 29 143 ND ND ND ND ND 0,8281 ND 36,248 ND 29 181 ND ND ND ND 0,8281 ND 36,248 ND 29 183 ND ND ND 0,8281 ND 36,248 ND 29 183 ND ND ND 0,8281 ND 36,248 ND 29 183 ND ND ND 0,8281 ND 36,248 ND 29 184	sophorone	138	Q	2	2	2	0.8281	2	36,248	2	83	2
139 ND ND ND ND OBZ81 ND 36,248 ND 29 ane 122 ND ND ND ND 0.8281 ND 36,248 ND 29 122 ND ND ND ND ND ND 0.8281 ND 36,248 ND 29 163 ND ND ND ND ND 0.8281 ND 36,248 ND 29 181 ND ND ND ND ND 0.8281 ND 36,248 ND 29 128 ND ND ND ND 0.8281 ND 36,248 ND 29 128 ND ND ND ND ND 0.8281 ND 36,248 ND 29 163 ND ND ND ND ND ND 0.8281 ND 36,248 ND 29 163 ND <t< td=""><td>,4-Dimethylphenol</td><td>122</td><td>Q</td><td>Q</td><td>QN</td><td>QN</td><td>0.8281</td><td>Q</td><td>36,248</td><td>QV</td><td>29</td><td>QV</td></t<>	,4-Dimethylphenol	122	Q	Q	QN	QN	0.8281	Q	36,248	QV	29	QV
ane 173 ND ND ND ND 0.8281 ND 36,248 ND 29 122 ND ND ND ND ND ND 0.8281 ND 36,248 ND 29 163 163 ND ND ND ND ND ND 29 181 ND ND ND ND ND ND 28281 ND 26,248 ND 29 128 ND ND ND ND ND ND 0.8281 ND 36,248 ND 29 128 ND ND ND ND ND ND 0.8281 ND 36,248 ND 29 143 ND ND ND ND ND ND 0.8281 ND 36,248 ND 29 143 ND ND ND ND 0.8281 ND 36,248 ND 29 143 <td> Nitrophenol</td> <td>139</td> <td>QN</td> <td>QN</td> <td>QN</td> <td>QN</td> <td>0.8281</td> <td>ON</td> <td>36,248</td> <td>QN</td> <td>29</td> <td>Q</td>	Nitrophenol	139	QN	QN	QN	QN	0.8281	ON	36,248	QN	29	Q
122 ND	is(2-Chloroethoxy)methane	173	QN	QN	QN	QN	0.8281	QN	36,248	Q	29	Q
163 ND	Senzoic acid	122	2	2	2	Q	0.8281	2	36,248	2	29	2
181	4-Dichlorophenol	163	2	Q	2	2	0.8281	2	36,248	2	29	2
128	, z, 4- i richioropenzene	5 5	OND	ON COLOR	2 5	ON COOL	0.8281	ON O	30,240	ON S	200	
163 ND ND ND 0.6281 ND 36,248 ND 29 249 ND ND ND 0.6281 ND 36,248 ND 29 9 261 ND ND ND 0.6281 ND 36,248 ND 29 9 143 ND ND ND ND 0.6281 ND 36,248 ND 29 9 143 ND ND ND ND 0.6281 ND 36,248 ND 29 162 ND ND ND 0.6281 ND 36,248 ND 29 162 ND ND ND 0.6281 ND 36,248 ND 29 162 ND ND ND 0.6281 ND 36,248 ND 29 162 ND ND ND 0.6281 ND 36,248 ND 29 162 ND ND	Chlomanilina	128	0.03g	S.COOL-OF	2 2	5.000E-04	0.0201	S.630E-04	36,248	0.2 I4E-0/	200	Z.03ZE-00
261 ND ND ND 0.8281 ND 36,248 ND 29 8 149 ND ND ND 0.8281 ND 36,248 ND 29 9 149 ND ND ND 0.8281 ND 36,248 ND 29 143 ND ND ND ND 0.8281 ND 36,248 ND 29 143 ND ND ND ND 0.8281 ND 36,248 ND 29 142 ND ND ND 0.8281 ND 36,248 ND 29 142 ND ND ND 0.8281 ND 36,248 ND 29 142 ND ND ND 0.8281 ND 36,248 ND 29 142 ND ND ND 0.8281 ND 36,248 ND 29 142 ND ND ND	8-Dichlorophanol	163	S	G CN	2	2 5	0.0201	2 2	36 248	2 2	3 8	2 2
261 ND ND ND 0.8281 ND 36,248 ND 29 9 149 ND ND ND 0.8281 ND 36,248 ND 29 143 ND ND ND 0.8281 ND 36,248 ND 29 143 ND ND ND ND ND 0.8281 ND 36,248 ND 29 143 ND ND ND ND ND ND 36,248 ND 29 142 ND ND ND ND 0.8281 ND 36,248 ND 29 142 ND ND ND ND 0.8281 ND 36,248 ND 29 142 ND ND ND ND 0.8281 ND 36,248 ND 29 142 ND ND ND 0.8281 ND 36,248 ND 29 142	Javachloronnonene	249	S	2	S	2 2	0.8281	2 2	36.248	S	200	2 2
a 149 ND ND ND 0.8281 ND 36,248 ND 29 a 158 ND ND ND 0.8281 ND 36,248 ND 29 143 ND ND ND ND ND 0.8281 ND 36,248 ND 29 142 ND ND ND ND ND ND 36,248 ND 29 Inc 162 ND ND ND ND 0.8281 ND 36,248 ND 29 Inc 216 ND ND ND ND 0.8281 ND 36,248 ND 29 Inc 273 ND ND ND 0.8281 ND 36,248 ND 29 Inc 273 ND ND ND 0.8281 ND 36,248 ND 29 Inc 273 ND ND 0.8281 ND 36,248	lexachlorobutadiene	261	2	200	Q	Q.	0.8281	Q	36.248	QN	29	2
e 158 ND ND ND 0.8281 ND 36,248 ND 29 143 ND ND ND 0.8281 ND 36,248 ND 29 162 ND ND ND ND ND ND 29 ne 216 ND ND ND ND 0.8281 ND 36,248 ND 29 ne 216 ND ND ND ND 0.8281 ND 36,248 ND 29 ne 273 ND ND ND ND 0.8281 ND 36,248 ND 29 ne 273 ND ND ND 0.8281 ND 36,248 ND 29 ne 273 ND ND ND 0.8281 ND 36,248 ND 29 ne 273 ND ND ND 0.8281 ND 36,248 ND 29	Dimethylphenethylamine	149	2	9	S	2	0.8281	Q	36,248	Q	29	2
143 ND ND ND ND 0.8281 ND 36,248 ND 29 162 ND ND ND ND ND 0.8281 ND 36,248 ND 29 nne 142 ND ND ND ND ND ND 29 nne 273 ND ND ND ND ND 36,248 ND 29 nne 273 ND ND ND ND 0.8281 ND 36,248 ND 29 nne 273 ND ND ND ND 0.8281 ND 36,248 ND 29 nne 197 ND ND ND 0.8281 ND 36,248 ND 29	4-Nitroso-di-n-butylamine	158	Q	QV	QN	QN	0.8281	QV	36,248	QN	29	Q
Inaphthalene 162 ND ND ND 0.8281 ND 36,248 ND 29 Tetrachlorobenzene 142 ND ND ND 0.8281 ND 36,248 ND 29 Tetrachlorobenzene 216 ND ND ND 0.8281 ND 36,248 ND 29 Iorocyclopentadiene 273 ND ND ND 0.8281 ND 36,248 ND 29 ichlorophenol 197 ND ND ND 0.8281 ND 36,248 ND 29	4-Chloro-3-methylphenol	143	Q	Q	Q	Q	0.8281	Ð	36,248	QN	53	Q
142 ND ND ND ND 0.8281 ND 36,248 ND 29 216 ND ND ND 0.8281 ND 36,248 ND 29 273 ND ND ND 0.8281 ND 36,248 ND 29 197 ND ND ND 0.8281 ND 36,248 ND 29	Safrole	162	QN	QN	QN	ND	0.8281	QN	36,248	QN	29	ND
216 ND ND ND 0.8281 ND 36,248 ND 29 273 ND ND ND 0.8281 ND 36,248 ND 29 197 ND ND ND 0.8281 ND 36,248 ND 29	-Methylnaphthalene	142	QV	Q	QV	S	0.8281	Q	36,248	QV	29	Q
Adiene 273 ND ND ND 0.8281 ND 36,248 ND 29 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,2,4,5-Tetrachlorobenzene	216	9	2	2	Q	0.8281	2	36,248	2	29	2
62 ON 182'95 ON 1828'0 ON ON ON ON JAL	lexachlorocyclopentadiene	273	2 9	2	2	2	0.8281	2	36,248	2	62	2
	,4,6- I nchlorophenol	197	2	2	Q	S	0.8281	ON ON	36,248	2	53	2

TABLE A-8. AEC - SVOC RUN NO. 1 DATA FOR BOOBY TRAP FLASH TEST (28 MARCH 1998)

		Average	Average	Background	Background Corrected	Dilution	Corrected		Sample Total		Corrected
Compound	Molecular Weight	Concentration - Run 1, ppbv	Concentration - Run 1, mg/m³	Concentration, mg/m³	Concentration - Run 1, mg/m³	Correction Factor (b), %	Concentration - Run 1, mg/m³	Initial Plume Volume, ft³	Material - Run 1, Ib	Number of Items	Factor - Run 1, lb/Item
2,4,5-Trichlorophenol	197	QN	Q	QN	QN	0.8281	QN	36,248	QN	29	QN
Isosafrole	162	QN	QN	QN	QN	0.8281	QN	36,248	QN	29	ON
2-Chloronaphthalene	163	QN	QN	QN	QN	0.8281	QN	36,248	QN	29	QN
2-Nitroaniline	138	QN	QN	ON	ON	0.8281	QN	36,248	Q	29	Q
1,4-Naphthoquinone	158	QN	QN	QN	QN	0.8281	QN	36,248	QN	29	QN
Dimethylphthalate	194	QN	QN	QN	QN	0.8281	ON	36,248	QN	29	ON
1,3-Dinitrobenzene	168	QN	QN	ON	QN	0.8281	QN	36,248	QN	29	QN
2,6-Dinitrotoluene	182	QN	QN	QN	QN	0.8281	QN	36,248	QN	29	QN
Acenaphthylene	152	QN	QN	QN	QN	0.8281	QN	36,248	QN	29	QN
3-Nitroaniline	138	QN	QN	QN	QN	0.8281	QN	36,248	QN	29	Q
4-Nitrophenol	139	QN	QN	QN	QN	0.8281	QN	36,248	QN	29	ON
2,4-Dinitrophenol	184	QN	QN	QN	QN	0.8281	QN	36,248	QN	29	QN
Acenaphthene	154	QN	Q	QV	ON	0.8281	QN	36,248	Q	29	Q
2,4-Dinitrotoluene	182	QN	QN	QN	QN	0.8281	QN	36,248	ON	29	QN
Dibenzofuran	168	QN	QN	ON	QN	0.8281	QN	36,248	ON	29	QN
Pentachtorobenzene	250	Q	QV	QV	QN	0.8281	Q	36,248	2	29	Q
1-Naphthylamine	143	QN	Q	Q	QN	0.8281	Q	36,248	Q	29	Q
2-Naphthylamine	143	Q	QN	Q	QN	0.8281	Q	36,248	Q	53	Q
2,3,4,6-Tetrachlorophenol	232	QN	QN	QN	ON	0.8281	QN	36,248	ON	29	QN
Diethylphthalate	222	0.027	2.532E-04	4.340E-04	-1.808E-04	0.8281	QN	36,248	Q	29	9
4-Chlorophenylphenyl ether	205	Q	S	Q	2	0.8281	Q	36,248	Q	29	Q
Fluorene	166	Q	9	Q	2	0.8281	QN	36,248	Q.	29	Q
5-Nrtro-o-toluidine	152	2	Q :	QV.	Q .	0.8281	QN.	36,248	QN :	29	Q C
4-Nitroaniine	138	2 2	2	2	2	0.8281	Q	36,248	2	53	2
4,6-Unitro-2-metnyiphenoi	198		2 2	2 2	2 2	0.8281	2 2	36,248	2 2	S) S	2 2
sym-Trinitrobenzene	23	2 2	2 2	2 5	2 2	0.0201	2 2	36 248	2 5	62	2 2
Diallate	270	QN	Q	Q	Q	0.8281	QN	36.248	2	23	Q
Phenacetin	179	QN	Q	Q	QN	0.8281	Q	36,248	Q	29	Q
4-Bromophenylphenyl ether	249	QV	Q	Q.	QN	0.8281	QN	36,248	2	29	QN
Hexachlorobenzene	285	QN	QV	ON	ON	0.8281	QN	36,248	QN	29	QN
4-Aminobiphenyl	169	QN	QN	QN	QN	0.8281	QN	36,248	Q.	29	QN
Pronamide	228	2	9	9	9	0.8281	Q	36,248	2	29	9
Pentachiorophenol	992	2 2	2 2	2 2	2 2	0.8281	2 5	36,248	2 9	8	2
Penachiorenicerie	178	2 2	2 2	2 2	2 2	0.8281	2 5	36,248	2 2	20	2 2
Anthracene	178	9	2	2	Q	0.8281	QN	36.248	2	29	Q
Carbazole	167	QN	Q	2	Q	0.8281	QN	36,248	Q	29	QN
Di-n-butylphthalate	278	0.124	1.436E-03	7.766E-04	6.595E-04	0.8281	7.963E-04	36,248	1.802E-06	29	6.214E-08
4-Nitroquinoline-1-oxide	190	QN	QN	QN	QN	0.8281	QN	36,248	QN	29	Q
Methapyrilene	261	Q	2	Q	Q	0.8281	Q	36,248	Q	29	Q
Fluoranthene	202	Q	2	2	Q	0.8281	9	36,248	Q	29	Q
Benzidine	184	Q	2	2	2	0.8281	Q.	36,248	9	29	2
Pyrene	202	Q	2	2	Q	0.8281	Q S	36,248	QV.	53	Q C
p-Dimemyiaminoazooenzene	325	2 2	2 2	2 2	2 2	0.8281	2 2	36,248	2 2	62	2 2
Kanona	491	S	2 2	2 2	2 2	0.0201	2 5	36.248	2 2	500	2 2
Butylbenzylphthalate	312	0.025	3.242E-04	2	3.242E-04	0.8281	3.915E-04	36,248	8.859E-07	29	3.055E-08
3,3'-Dimethylbenzidine	212	Q		2	QN	0.8281	QN	36,248	QN	29	QN
A Achtominafiliana	200	S	CZ	9	٩		9.2				

TABLE A-8. AEC - SVOC RUN NO. 1 DATA FOR BOOBY TRAP FLASH TEST (28 MARCH 1998)

	_						_	_			_	_	
Corrected Emission Factor - Run 1, Ib/Item	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN
Number of Items	59	29	59	29	59	59	59	59	29	59	29	29	29
Sample Total Material - Run 1, Ib	QN	QN	QN	QN	QN	ŊŊ	QN	QN	QN	QN	QN	QN	QN
Initial Plume	36,248	36,248	36,248	36,248	36,248	36,248	36,248	36,248	36,248	36,248	36,248	36,248	36,248
Corrected Concentration - Run 1, mg/m³	QN	QV	2	QN	Q	QN	QN	QN	QN	QV	QN	QN	QN
Dilution Correction Factor (b); %	0.8281	0.8281	0.8281	0.8281	0.8281	0.8281	0.8281	0.8281	0.8281	0.8281	0.8281	0.8281	0.8281
Background Corrected Concentration - Run 1, mg/m³	QN	Q	Q	QN	Q	QN	ON	QN	QN	ON	QV	QN	QN
Background - Concentration, mg/m ²	QN	Q	Ð	Q	2	QN	QN	QN	QN	QN	QN	QN	QN
Average Concentration - Run 1, mg/m³	QN	Q	Q	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN
Average Concentration - Run 1, ppbv	QN	Q	QN	Q	Q	QN	QN	QN	QN	QN	DN	ON	QN
Molecular Weight	391	253	228	228	391	256	252	727	252	268	276	278	276
Compound	s(2-Ethylhexyl)phthalate	3-Dichlorobenzidine	enz(a)anthracene	hrysene	i-n-octylphthalate	12-Dimethylbenz(a)anthracene	enzo(b)fluoranthene (a)	enzo(k)fluoranthene (a)	enz(a)pyrene	Methylcholanthrene	deno(1,2,3-cd)pyrene	ibenz(a,h)anthracene	enzo(g,h,i)perylene

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers. b Estimated from tracer data as presented in Volume IV.

SIMULATOR FLASH ARTILLERY M110

TABLE A-1. AEC MUNITION ITEM INPUT DATA SHEET (28 MARCH 1998)

Munition Item: Simulator Flash Artillery Created by: Radian International LLC

No. of Runs =

2

Sample Volumes:	Run	No. 1	Run	No. 2	Compos	ite Run	Average
	Train A	Train B	Train A	Train B	Train A	/ Train B	(ft³)
TSP	893.7	1059.8	972.0	1176.4	NA NA	NA	1025.46
PM ₁₀	302.9	192.3	625.3	611.8	NA	NA	433.07
Metals	893.7	1059.8	972.0	1176.4	NA	NA	1025.46
VOCs	NA	NA	NA	NA	NA	NA	NA
SVOCs	107.9	87.6	110.5	94.4	NA	182.0	100.09
HCI/CI₂	29.4	23.7	28.9	23.4	NA	NA	26.35
Energetics	NA	NA	NA	NA	NA	NA	NA
Dioxin/Furan	119.6	128.2	112.5	140.5	NA	268.7	125.21
Residue	NA	NA	NA	NA	NA	NA	NA
CEM	NA	NA	NA	NA	NA	NA	NA

Sample Volumes:	Run Run	No. 1	Run	No. 2	Compo:	site Run	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(mL)
HCI/CI ₂ (H ₂ SO ₄)	44.0	38.0	45.0	48.5	NA	NA	43.88
HCI/CI₂ (NaOH)	49.0	37.0	41.0	36.0	NA	NA	40.75

Sample Weight Gain:	Run	No. 1	Run	No. 2	Compo	site Run	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(g)
TSP	0.5860	0.5801	0.4906	0.4712	NA	NA	0.5320
PM ₁₀	0.2466	0.2688	0.3003	0.3362	NA	NA	0.2880

Dilution Correction Factors:	Run No. 1	Run No. 2	Composite Run	Average
TSP	0.7887	0.8469	NA	0.8178
PM ₁₀	0.9219	0.8942	NA	0.9081
Metals	0.7887	0.8469	NA	0.8178
VOCs	0.9071	0.9290	NA	0.9181
SVOCs	0.7887	0.8469	0.8178	0.8178
HCI/CI ₂	0.7887	0.8469	NA	0.8178
Energetics	NA	NA	NA	NA
Dioxin/Furan	0.7887	0.8469	NA	0.8178
Residue	NA	NA	NA	NA
CEM	0.7887	0.8469	NA	0.8178

	Run No. 1	Run No. 2	Composite Run	Average
Initial Plume Volume (m ³)	960.17	976.90	968.54	968.54
Net Explosive Weight (g)	85.05	85.05	85.05	85.05

TABLE A-2. AEC BACKGROUND INPUT DATA SHEET (28 MARCH 1998)
Munition Item: Simulator Flash Artillery
Created by: Radian International LLC

No. of Runs =

Sample Volumes:	FA - Bac	kground	Reager	nt Blank	Field	Blank	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(ft³)
TSP	1321.8	NA	NA	NA	NA	NA	1321.80
PM ₁₀	984.8	NA	NA	NA	NA	NA	984.75
Metals	1321.8	NA	NA	NA	NA	NA	1321.80
VOCs	NA	NA	NA	NA	NA	NA	NA
SVOCs	113.5	NA	NA	NA	NA	NA	113.48
HCI/CI₂	28.6	NA	NA	NA	NA	NA	28.64
Energetics	NA	NA	NA	NA	NA	NA	NA
Dioxin/Furan	153.8	NA	NA	NA	NA	NA	153.82
Residue	NA	NA	NA	NA	NA	NA	NA
CEM	NA	NA	NA	NA	NA	NA	NA

Sample Volumes:	FA - Bac	kground	Reager	nt Blank	Field	Blank	Average
kijis sa sa Nijeri sa	Train A	Train B	Train A	Train B	Train A	Train B	(mL)
HCI/Cl₂ (H₂SO₄)	43.5	NA	107.2	NA	45.3	NA	75.35
HCI/Cl₂ (NaOH)	41.0	NA	92.0	NA	41.5	NA	66.50
HCI/CI ₂ (H ₂ O)	NA	NA	100.0	NA	NA	NA	100.00

Sample Weight Gain:	FA - Bac	kground	Reagen	t Blank	Field	Blank	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(g)
TSP	-0.0001	NA	-0.0026	NA	-0.0037	NA	-0.0014
PM ₁₀	0.0005	NA	-0.0002	NA	-0.0029	NA	0.0002

TABLE A-3. AEC - TSP, PM₁₀, HCVCi₃, DIOXIN/FURAN, CO, CO₃, NOx, SO₃, AND METALS DATA EVALUATION FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1998)

	Average	Average	Average	Average	Average Background -	Average Maximum Detection Limit -	Average Minimum Detection Limit -	Backaround	Minimum Detection Limit	Background	Minimum Detection Limit
Compound	Concentration - Run 1, mg/m ³	Concentration - Run 2, mg/m²	Concentration - Run 1-2, mg/m³	Concentration - Run 1-2, mg/m³	Concentration, mg/m³	Concentration, mg/m³	Concentration, mg/m³	Evaluation Criteria	Evaluation Criteria	Evaluation Notes	Evaluation Notes
Particulate											
TSP	2.124E+01	1.754E+01	QV	1.939E+01	-2.672E-03	QN	Q	7258.91	10.00	A	٧
PM ₁₀	2.875E+01	3.501E+01	QN	3.188E+01	1.793E-02	QN	ND	1778.07	10.00	A	٧
Hydrogen Chloride (HCI)/Chlorine (CI,)											
HCI	7.503E-02	3.086E-02	Q	5.294E-02	Q	6.700E-02	8.120E-03	10.00	6.52	V	œ
Cl ₂	2.545E-02	2.007E-02	Q	2.276E-02	3.231E-03	1.997E-03	1.461E-03	7.05	15.58	8	¥
Dissip											
Dioxin TEQ (a)	6.229E-10	6.054E-11	QN	3.417F-10	1.371F-10	CN	S	2 49	00 01	C	V
				2				2			
Continuous Emissions Monitoring (CEM) System	vstem										
Carbon Monoxide (CO)	2.957E+00	2.091E+00	S	2.524E+00	1.385E-01	QN	Q	18.23	10.00	4	4
Nitrogen Oxide (NOx)	6.600E-01	8.150E-01	QN	7.375E-01	4.064E-02	QN	Q	18.15	10.00	4	4
HCI	-1.058E-01	-1.533E-01	QN	-1.295E-01	-4.682E-02	QN	Q	2.77	10.00	၁	4
Carbon Dioxide (CO ₂)	7.426E+02	8.026E+02	QN	7.726E+02	6.822E+02	2	9	1.13	10.00	۵	V
Sulfur Dioxide (SO ₂)	5.675E-02	5.433E-02	Q	5.554E-02	1.833E-04	QN	QV	303.02	10.00	∢	V
Particulate-phase Metals											
Aluminum	1.052E-01	1.100E-01	QN	1.076E-01	NA (b)	1.486E-03	1.052E-03	(P) (P)	102.32	NA (b)	A
Antimony	2.108E-02	9.225E-03	QN	1.515E-02	NA (b)	1.048E-04	7.420E-05	NA (b)	204.21	NA (b)	٧
Arsenic	Q	Q	Q	QN	NA (b)	6.980E-05	4.928E-05	NA (b)	QN	NA (b)	ц
Barium	1.228E+00	1.108E+00	Q	1.168E+00	NA (b)	6.687E-06	4.727E-06	NA (b)	247109.55	NA (b)	A
Beryllium	Q	Q	Q	Q	NA (b)	3.316E-05	2.345E-05	NA (b)	QN	NA (b)	Ŧ
Cadmium	8.381E-05	1.273E-04	Q	1.056E-04	NA (b)	8.739E-06	6.174E-06	NA (b)	17.10	NA (b)	A
Chromium	2.964E-03	2.847E-03	Q	2.906E-03	NA (b)	1.744E-05	1.233E-05	NA (b)	235.66	NA (b)	¥
Cobalt	3.372E-04	3.215E-04	QV	3.293E-04	NA (b)	1.685E-05	1.191E-05	NA (b)	27.66	NA (b)	٧
Copper	2.825E-02	2.357E-02	Q	2.591E-02	NA (b)	7.603E-05	5.368E-05	NA (b)	482.72	NA (b)	¥
Lead	3.961E-03	3.426E-03	Q	3.693E-03	NA (b)	6.925E-05	4.910E-05	NA (b)	75.23	NA (b)	A
Magnesium	7.267E+00	3.532E+00	임	5.400E+00	NA (b)	1.330E-04	9.417E-05	NA (b)	57343.84	NA (b)	٧
Manganese	4.270E-03	4.403E-03	ND	4.337E-03	NA (b)	6.320E-06	4.470E-06	NA (b)	970.13	NA (b)	٧
Nickel	1.520E-04	2.016E-04	ON	1.768E-04	NA (b)	3.627E-05	2.565E-05	NA (b)	68'9	(a) AN	8
Phosphorus	1.831E-03	2.382E-03	ND	2.107E-03	NA (b)	1.673E-04	1.183E-04	NA (b)	17.80	NA (b)	Ą
Selenium	9	Q	Q	ON	NA (b)	6.339E-05	4.488E-05	NA (b)	QN	NA (b)	Ŧ
Silver	Q	Q	Q	QN	NA (b)	2.583E-05	1.825E-05	NA (b)	QN	NA (b)	ш.
Thallium	Q	Q	Q	QV	NA (b)	9.966E-05	7.053E-05	NA (b)	QN	NA (b)	u.
Zinc	5.471E-03	6.182E-03	Q	5.827E-03	NA (b)	9.288E-05	6.559E-05	NA (b)	88.84	NA (b)	A
Mercury	Q	Q	QN	QN	NA (b)	0.000E+00	0.000E+00	NA (b)	QN	NA (b)	щ

a Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD.

b Insufficient material to analyze.

A = Identified as a contaminant (greater than or equal to 10 times background or minimum MQL)

B = Likely contaminant (less than 10 and greater than or equal to 5 times background or minimum MQL)

C = Probable contaminant (less than 5 and greater than or equal to 2 times background or minimum MQL)

D = Measured, but accuracy or presence questionable (less than 2 and greater than or equal to 1 times background or minimum MQL)

F = Not considered a contaminant (less than 1 times background or minimum MQL)

TABLE A-4. AEC - TSP, PM, HCUCI, DIOXIN/FURAN, CO, CO, NOX, SO, AND METALS RUN NO. 1 DATA FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1998)

	22.28.28.22	The Afficial Court in						3800	1 8 8 8 8 1 8 8 8 8 8 8 8 8 8 8 8 8 8 8		1 Sept. 10
			Average	Backoround -	Background	Dirtion	Corrected		Sample Total		Corrected
Compound	Molecular Weight	Concentration -	Concentration - Run 1, mg/m³	Concentration, mg/m³	Concentration - Run 1, mg/m²	Correction Factor (a), %	Concentration - Run 1, mg/m³	Initial Plume Volume, ft ²	Material - Run 1, Ib	Number of Items	Factor - Run 1, Ib/item
Particulate											200
TSP	•	•	2.124E+01	-2.672E-03	2.125E+01	0.7887	2.694E+01	33,908	5.702E-02	-	5./0ZE-0Z
PM ₁₀	•	•	2.875E+01	1.793E-02	2.873E+01	0.9219	3.117E+01	33,908	6.598E-02	-	6.598E-02
Hydrogen Chloride (HCI)/Chlorine (Cl ₂)											
HCI (b)	36	49.467	7.503E-02	Q	7.503E-02	0.7887	9.513E-02	33,908	2.014E-04	-	2.014E-04
Cl ₂ (b)	1.2	8.629	2.545E-02	3.231E-03	2.222E-02	0.7887	2.817E-02	33,908	5.964E-05	1	5.964E-05
Dioxin/Furan									0, 1, 50,	ļ	07 1700 7
Dioxin TEQ (c)	•	•	6.229E-10	1.371E-10	4.858E-10	0.7887	6.159E-10	33,908	1.304E-12	-	1.304E-12
Continuous Emissions Monitoring (CEM) System	system										
Carbon Monoxide (CO)	28	2538.847	2.957E+00	1.385E-01	2.819E+00	0.7887	3.574E+00	33,908	7.565E-03	-	7.565E-03
Nitrogen Oxide (NOx)	46	344.923	6.600E-01	4.064E-02	6.194E-01	0.7887	7.853E-01	33,908	1.662E-03	-	1.662E-03
HCI (b)	36	-70.619	-1.058E-01	-4.682E-02	-5.894E-02	0.7887	QN	33,908	QN	-	2
Carbon Dioxide (CO ₂)	44	405687.600	7.426E+02	6.822E+02	6.035E+01	0.7887	7.652E+01	33,908	1.620E-01	1	1.620E-01
Sulfur Dioxide (SO ₂)	8	21.315	5.675E-02	1.833E-04	5.657E-02	0.7887	7.172E-02	33,908	1.518E-04	1	1.518E-04
Particulate-phase Metals											
Aluminum	27	93.665	1.052E-01	NA (d)	1.052E-01	0.7887	1.334E-01	33,908	2.824E-04	-	2.824E-04
Antimony	122	4.153	2.108E-02	NA (d)	2.108E-02	0.7887	2.673E-02	33,908	5.657E-05	-	5.657E-05
Arsenic	75	QN	QN	NA (d)	ON	0.7887	Q	33,908	Q	-	2
Barium	137	215.478	1.228E+00	(d) AN	1.228E+00	0.7887	1.557E+00	33,908	3.296E-03	-	3.296E-03
Beryllium	6	QN	Q	NA (d)	QN	0.7887	QN	33,908	ND	1	Q
Cadmium	112	0.018	8.381E-05	NA (d)	8.381E-05	0.7887	1.063E-04	33,908	2.249E-07	1	2.249E-07
Chromium	52	1.370	2.964E-03	NA (d)	2.964E-03	0.7887	3.759E-03	33,908	7.956E-06	-	7.956E-06
Cobatt	29	0.137	3.372E-04	(p) V N	3.372E-04	0.7887	4.275E-04	33,908	9.050E-07	-	9.050E-07
Copper	2	10.612	2.825E-02	NA (d)	2.825E-02	0.7887	3.582E-02	33,908	7.583E-05	-	7.583E-05
Lead	207	0.460	3.961E-03	(p) WN	3.961E-03	0.7887	5.022E-03	33,908	1.063E-05	1	1.063E-05
Magnesium	24	7278.748	7.267E+00	NA (d)	7.267E+00	0.7887	9.214E+00	806'88	1.950E-02	1	1.950E-02
Manganese	55	1.866	4.270E-03	NA (d)	4.270E-03	0.7887	5.414E-03	33,908	1.146E-05	1	1.146E-05
Nickel	59	0.062	1.520E-04	NA (d)	1.520E-04	0.7887	1.927E-04	33,908	4.080E-07	1	4.080E-07
Phosoborus	31	1.420	1.831E-03	NA (d)	1.831E-03	0.7887	2.321E-03	806'88	4.914E-06	_ I	4.914E-06
Selenium	79	QV	Ð	NA (d)	QV	0.7887	QN	33,908	ON	1	Q
Silver	108	QV	Q	NA (d)	Q	0.7887	QN	33,908	ON	1	ND
Thallium	204	æ	Q	NA (d)	QN	0.7887	QN	33,908	ON	1	D
Zinc	65	2.023	5.471E-03	NA (d)	5.471E-03	0.7887	6.937E-03	33,908	1.468E-05	1	1.468E-05
Mercury	201	Q.	QN	NA (d)	QN	0.7887	QN	33,908	QN	1	QN

a Estimated from tracer data as presented in Volume IV.

b HCI/Cl₂ levels were too low to be reliably measured.

c Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD. Presence questionable - reported at similar levels in samples and blanks.

d Insufficient material to analyze.

TABLE A-5. AEC - TSP, PM₁₀, HCI/CI₃, DIOXIN/FURAN, CO, CO₂, NO_X, SO₂, AND METALS RUN NO. 2 DATA FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1998)

punocuoo	Molecular Weight	Average Concentration - Run 2, ppbv	Average Concentration - Run 2, mg/m*	Background • Concentration, mg/m³	Background Corrected Concentration - Run 2, mg/m³	Dilution Correction Factor (a), %	Corrected Concentration - Run 2, mg/m ³	Initial Plume Volume, IT	Sample Total Material - Run 2, lb	Number of Items	Corrected Emission Factor - Run 2, Ib/Item
Particulate			1.754E+01	-2.672E-03	1.755E+01	0.8469	2.072E+01	34,499	4.462E-02	-	4.462E-02
PM ₁₀				1.793E-02	3.499E+01	0.8942	3.914E+01	34,499	8.429E-02	-	8.429E-02
Hydrogen Chloride (HCI)/Chlorine (CI ₂)							1	400	10101	,	1 040
HCI (b)	98	20.347		QN	3.086E-02	0.8469	3.644E-02	34,499	7.848E-U5		7.848E-US
Cl ₂ (b)	۲	6.806	2.007E-02	3.231E-03	1.684E-02	0.8469	1.989E-UZ	34,499	4.263E-03		4.203E-U3
Dioxin/Euran											
Dioxin TEQ (c)			6.054E-11	1.371E-10	ND	0.8469	Q	34,499	QN	1	QN
Continuous Emissions Monitoring (CEM) System	/stem						20,000	7,700	4 075 00	,	4 0755 00
Carbon Monoxide (CO)	28	1795.400	2.091E+00	1.350E-01	1.956E+00	0.8469	2.310E+00	64,49	4.9755-03	-	1 0605 03
Nitrogen Oxide (NOx)	46	425.901	8.150E-01	4.056E-02	7.744E-01	0.8469	9.144E-01	34,499	1.969E-03	- -	1.909E-03
HCI (b)	36	-102.343	-1.533E-01	-1.631E-01	9.782E-03	0.8469	1.155E-02	34,499	Z.488E-05	-	2.468E-UD
Carbon Dioxide (CO ₂)	44	438509.800	8.026E+02	6.783E+02	1.244E+02	0.8469	1.468E+02	34,499	3.162E-01	-	3.162E-01
Sulfur Dioxide (SO ₂)	64	20.408	5.433E-02	-4.336E-04	5.477E-02	0.8469	6.467E-02	34,499	1.393E-04	1	1.393E-04
Particulate-phase Metals					9	30,00	9	007.70	2	,	2
Aluminum	/2	126.76		(D) VN	ND STEEL OF	0.0469	1 0805-00	34 400	2 346F-05	-	2 346F-05
Antimony	122	818.F	9.225E-03	NA (d)	9.223E-U3	0.0469	ND ND	34.499	QN	-	ON ON
Ranim	137	194.398	1.108E+00	(D) VN	1.108E+00	0.8469	1.308E+00	34,499	2.818E-03	-	2.818E-03
Beryllum	6	Q	S	NA (d)	QN	0.8469	ND	34,499	ΩN	-	Q
Cadmium	112	0.027	1.273E-04	NA (d)	1.273E-04	0.8469	1.503E-04	34,499	3.238E-07	-	3.238E-07
Chromium	52	1.316	2.847E-03	NA (d)	2.847E-03	0.8469	3.361E-03	34,499	7.240E-06	-	7.240E-06
Cobalt	59	0.131	3.215E-04	NA (d)	3.215E-04	0.8469	3.796E-04	34,499	8.176E-07	-	8.176E-07
Copper	2	8.853	2.357E-02	NA (d)	2.357E-02	0.8469	2.783E-02	34,499	5.994E-05	- -	0.334 E-00
Lead	207	0.398	3.426E-03	NA (d)	3.426E-03	0.8469	4.045E-03	34,499	8.7135-06		8.713E-06
Magnesium	24	3538.149	3.532E+00	NA (d)	3.532E+00	0.8469	4.1/1E+00	66,499	0.9035-03	- ,	4,4001
Manganese	55	1.925	4.403E-03	NA (d)	4.403E-03	0.8469	5.199E-03	34,499	1.1205-05	-	1.120E-05
Nickel	59	0.082	2.016E-04	NA (d)	2.016E-04	0.8469	2.380E-04	34,499	5.126E-07	-	5.1265-0/
Phosphorus	31	1.847	2.382E-03	NA (d)	2.382E-03	0.8469	2.813E-03	34,499	5.058E-06	- ,	0.038E-00
Selenium	79	Q	Q	NA (d)	2	0.8469	Q	34,499	2	-	2 9
Silver	108	QV	Q	NA (d)	2	0.8469	2	34,499	2	-	2 5
Thallium	204	2	Q	NA (d)	Q	0.8469	ON LOSS	34,499	ND	-	1 5775 05
Zinc	65	2.286	6.182E-03	NA (d)	6.182E-03	0.8469	7.300E-03	34,499	1.5/2E-05		1.3725-03
Mercury	201	QN	QN	NA (d)	2	0.8469	NO.	04,400		-	2.

TABLE A-6. AEC - DIOXIN/FURAN COMPOSITE RUN NO. 1-2 DATA FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1998)

Corrected Emission Factor - Run 1 2, Ib/item		Q	
Number of Items		-	
Sample Total Material - Run 1-2, Ib		Q	
initial Plume Volume, ft*		34,203	
Background Corrected Corrected Corrected Corrected Corrected Corrected Corrected Corrected Correction Corrected Emission Corrected Em		Q	
Dilution Correction Factor (a), %		ΑN	
Background - Corrected Concentration - Concentration - Concentration - mg/m² Run 1-2, mg/m²		Q	
Background - Concentration, mg/m³		1.371E-10	
Average Concentration - Run 1-2, mg/m³		Q	
Average Concentration - Run 1-2, ppbv		1	
Molecular Weight			
Compound	ioxin/Furan	ioxin TEQ (b)	

a Estimated from tracer data as presented in Volume IV. b Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD. Presence questionable - reported at similar levels in samples and blanks.

TABLE A-7. AEC - VOC DATA EVALUATION FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1998)

Compound (a)	Average Concentration - Run 1, mg/m²	Average Concentration - Run 2, mg/m³	Average Concentration - Run 1-2, mg/m³	Average Background - Concentration, mg/m²	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m²	Background Evaluation Criteria	Minimum Detection Limit Evaluation Criteria	Background Evaluation Notes	Minimum Detection Limit Evaluation Notes
Total Nonmethane Hydrocarbons (TNMHC)	Щ									
TNMHC	3.020E+00	1.515E+00	2.267E+00	1.760E-01	1.000E-04	1.000E-04	12.89	22674.00	A	4
Volatile Organic Compounds (VOCs)										
Ethane	1.600E-03	1.500E-03	1.550E-03	2.300E-03	1.000E-04	1.000E-04	0.67	15.50	F	A
Ethylene	2.220E-02	1.870E-02	2.045E-02	3.000E-04	1.000E-04	1.000E-04	68.17	204.50	A	٧
Acetylene	8.000E-03	7.600E-03	7.800E-03	7.500E-04	1.000E-04	1.000E-04	10.40	78.00	A	Ą
Propane	5.000E-04	1.000E-03	7.500E-04	1.000E-03	1.000E-04	1.000E-04	0.75	7.50	ц	8
Propene	9.600E-03	9.000E-03	9.300E-03	1.000E-04	1.000E-04	1.000E-04	93.00	93.00	A	A
i-Butane	3.500E-03	2.800E-03	3.150E-03	3.000E-04	1.000E-04	1.000E-04	10.50	31.50	A	A
i-Butene	6.700E-03	5.100E-03	5.900E-03	1.000E-04	1.000E-04	1.000E-04	29.00	59.00	V	4
1-Butene	2.300E-03	2.300E-03	2.300E-03	1.000E-04	1.000E-04	1.000E-04	23.00	23.00	A	A
1,3-Butadiene	2.000E-03	1.700E-03	1.850E-03	Q	1.000E-04	1.000E-04	10.00	18.50	∢.	Α.
n-Butane	2.050E-02	1.080E-02	1.565E-02	5.000E-04	1.000E-04	1.000E-04	31.30	156.50	۷.	¥,
trans-2-Butene	1.700E-03	1.500E-03	1.600E-03	2 2	1.000E-04	1.000E-04	10:00	16.00	V L	V L
Z.cUllietiyipiopalie	2000E-04	100 E 04	NO BOOK	2 2	1.000E-04	1.000 =-04	2001	2 2	_ <	<u>م</u>
3.Mathyl-1-hidae	4 000E-04	3.000E-04	3.000E-04	200	1.000E-04	1.000E-04	10.00	90.5	<	٥
-Mentana	1 2415-01	4.000E-04	8 240E-04	1 250E.03	1 000 - 04	1 0005-04	65 92	824 00	(4	
1-Pentena	8 000E-04	8 000E-04	8 000E-04	ON	1 000E-04	1 0005-04	10.00	00.8	₹ 4	c a
2-Methyl-1-butene	1.400E-03	9.000E-04	1.150E-03	QV	1.000E-04	1.000E-04	10.00	11.50	< <	
n-Pentane	1.273E-01	4.090E-02	8.410E-02	1.300E-03	1.000E-04	1.000E-04	64.69	841.00	A.	4
Isoprene	1.000E-04	1.000E-04	1.000E-04	QN	1.000E-04	1.000E-04	10.00	1.00	¥	٥
trans-2-Pentene	9.000E-04	6.000E-04	7.500E-04	QN	1.000E-04	1.000E-04	10.00	7.50	A	8
cis-2-Pentene	5.000E-04	3.000E-04	4.000E-04	ND	1.000E-04	1.000E-04	10.00	4.00	A	ပ
2-Methyi-2-butene	4.000E-04	5.000E-04	4.500E-04	QV	1.000E-04	1.000E-04	10.00	4.50	A	ပ
2,2-Dimethylbutane	1.120E-02	3.600E-03	7.400E-03	1.500E-04	1.000E-04	1.000E-04	49.33	74.00	A	A
Cyclopentene	4.000E-04	3.000E-04	3.500E-04	Q	1.000E-04	1.000E-04	10.00	3.50	∢	S
4-Methyl-1-pentene	4.000E-04	2.000E-04	3.000E-04	QN	1.000E-04	1.000E-04	10.00	3.00	∢ .	O .
Cyclopeniane 2.3 Dimothylbritaes	1.050E-02	3.400E-03	0.950E-03	1.500E-04	1.000E-04	1.000E-04	46.33	69.50	¥ <	₹ .
rie-A.Mathyl 2-pontone	ND ND	O.E.O.E.	NO - OK	4.300E-04	1,000 = 04	1.0005-04	90.03 UN	00:001	τ μ	C LL
2-Methybentane	1256E-01	4 320E-02	8 440F-02	1 750F-03	1 000E-04	1 000E-04	48 23	844 00	Α	. A
3-Methypentane	8.900E-02	3.020E-02	5.960E-02	1.400E-03	1.000E-04	1,000E-04	42.57	596.00	¥	A
2-Methyl-1-pentene	7.000E-04	9	7.000E-04	QN	1.000E-04	1.000E-04	10.00	7.00	٨	8
1-Hexene	4.000E-04	QN	4.000E-04	QN	1.000E-04	1.000E-04	10.00	4.00	¥	O
n-Hexane	1.438E-01	5.660E-02	1.002E-01	2.600E-03	1.000E-04	1.000E-04	38.54	1002.00	A	A
trans-2-Hexene	7.000E-04	4.000E-04	5.500E-04	QN	1.000E-04	1.000E-04	10.00	5.50	A	8
2-Methyl-2-pentene	4.000E-04	5.000E-04	4.500E-04	QN	1.000E-04	1.000E-04	10.00	4.50	A	ပ
cis-2-Hexene	4.000E-04	2.000E-04	3.000E-04	QN	1.000E-04	1.000E-04	10.00	3.00	A	ပ
Methylcyclopentane	5.380E-02	1.950E-02	3.665E-02	1.150E-03	1.000E-04	1.000E-04	31.87	366.50	A	A
2,4-Dimethylpentane	1.490E-02	5.600E-03	1.025E-02	7.500E-04	1.000E-04	1.000E-04	13.67	102.50	A	A
Benzene	1.233E-01	5.140E-02	8.735E-02	3.100E-03	1.000E-04	1.000E-04	28.18	873.50	Α	¥
Cyclohexane	6.350E-02	2.400E-02	4.375E-02	1.200E-03	1.000E-04	1.000E-04	36.46	437.50	Ą	A
2-Methylhexane	7.350E-02	3.310E-02	5.330E-02	1.750E-03	1.000E-04	1.000E-04	30.46	533.00	V	A
2,3-Dimethylpentane	2.680E-02	7.300E-03	1.705E-02	1.550E-03	1.000E-04	1.000E-04	11.00	170.50	A	A
3-Methylhexane	8.250E-02	3.330E-02	5.790E-02	1.950E-03	1.000E-04	1.000E-04	29.69	579.00	A	V

TABLE A-7. AEC - VOC DATA EVALUATION FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1998)

Compound (a) Run 1, ngm³ Run 2, ngm² 2.2.4-Trimethylpentane 2.520E.02 7.400E n-Hegiane 1.069E.01 4.460E n-Hegiane 1.069E.01 4.400E 2.4.4-Trimethyl-1-pentene 1.098E.01 4.400E 2.4.4-Trimethyl-2-pentene 1.096E.03 5.900E 2.5. Umathylperatane 9.900E.03 5.900E 2.3.4-Trimethylperatane 1.206E.03 1.900E 2.3.4-Trimethylperatane 4.000E.03 1.900E 2.3.4-Trimethylperane 2.504E.01 1.946E 2.3.4-Trimethylperane 3.340E.02 1.500E 2.4-Trimethylperane 3.340E.02 1.500E 2.2-Trimethylperane 3.340E.02 1.500E 2.2-Trimethylperane 3.340E.02 1.500E D-Zylene 2.000E.03 1.700E D-Xylene 2.000E.03 1.400E D-Xylene 2.000E.03 1.400E D-Xylene 2.000E.03 1.400E D-Xylene 2.000E.03 1.400E D-Xylene 2.000E.03 </th <th>~<u></u></th> <th>Hun 1-2, mg/m³ 1.630E-02 7.575E-02 ND 7.710E-02 ND 7.900E-03 2.205E-01 4.650E-03 2.435E-02 ND ND ND ND ND ND ND ND S.700E-03 2.705E-02 1.700E-03 1.700E-03</th> <th>2.150E-03 2.650E-03 2.650E-03 ND 2.450E-03 ND 4.500E-04 1.890E-04 7.500E-04 7.500E-04 7.500E-04 7.500E-04 1.100E-03 1.100E-03</th> <th>1,000E-04 1,000E-04</th> <th>1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04</th> <th>Criteria 7.58 28.58</th> <th>Criteria</th> <th></th> <th>Notes</th>	~ <u></u>	Hun 1-2, mg/m³ 1.630E-02 7.575E-02 ND 7.710E-02 ND 7.900E-03 2.205E-01 4.650E-03 2.435E-02 ND ND ND ND ND ND ND ND S.700E-03 2.705E-02 1.700E-03 1.700E-03	2.150E-03 2.650E-03 2.650E-03 ND 2.450E-03 ND 4.500E-04 1.890E-04 7.500E-04 7.500E-04 7.500E-04 7.500E-04 1.100E-03 1.100E-03	1,000E-04 1,000E-04	1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04	Criteria 7.58 28.58	Criteria		Notes
1006E-01	7.400E-03 4.460E-02 ND 5.900E-03 5.500E-03 1.500E-03 1.500E-03 1.500E-03 1.500E-03 1.500E-03 1.500E-02 1.500E-03 1.500E-02 1.500E-02 1.750E-02 1.750E-02 1.750E-02	1.630E-02 7.575E-02 ND 7.710E-02 ND 7.900E-03 9.100E-03 2.225E-01 4.650E-03 2.435E-02 ND ND ND ND ND ND ND ND ND ND ND ND ND	2.150E-03 2.650E-03 ND 2.450E-03 ND 4.500E-04 4.500E-04 1.890E-04 7.500E-04 7.500E-04 1.100E-03 1.100E-03 1.660E-03	1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04	1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04	7.58 28.58	1 20 00 .	Notes	
1,069E-01	A.460E-02 ND A.40E-02 A.40E-03 S.900E-03 S.900E-03 1.900E-03 1.946E-01 2.900E-03 1.530E-02 ND	7.575E-02 ND 7.710E-02 ND 7.900E-03 9.100E-03 2.255E-01 4.650E-03 2.435E-02 ND ND ND ND ND ND ND ND ND ND ND ND ND	2.650E-03 ND 2.450E-03 ND 4.500E-04 4.500E-04 1.890E-04 7.500E-04 7.500E-04 7.500E-04 1.100E-03 1.100E-03 1.660E-03	1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04	1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04	28.58	163.00	В	A
Vi-1-pentene ND Avane 1,098E-01 Avane 1,098E-01 Avane 1,098E-01 Incomethane 1,270E-02 Exame 1,270E-02 Incomethane 1,270E-02 Avoide-03 1,250E-02 Avoide-03 1,250E-02 Aviene 2,000E-03 Aviene 2,000E-03 Aviene 1,286E-01 Aviene 2,000E-03 Incomethane 1,680E-02 Incomethane 1,066E-01 Incomethane 1,066E-01 Incomethane 1,066E-01 Incomethane 1,066E-01 Incomethane ND Incomethane ND Incomethane ND Incomethane ND Incomethane ND Incomethane ND Incomethane 2,034E-02 Incomethane ND Incomethane ND Incomethane 1,046E-01 Incomethane 1,04	ND 4.440E-02 5.900E-03 5.500E-03 1.900E-03 1.946E-01 2.900E-03 1.530E-02 ND	ND 7.710E-02 ND 7.900E-03 9.100E-03 2.225E-01 4.650E-03 2.435E-02 ND ND ND ND ND ND S.100E-03 2.795E-02 1.576E-01	2.450E-03 ND ND 4.500E-04 4.500E-04 1.890E-02 3.500E-04 7.500E-04 ND ND N	1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04	1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04		757.50	A	Ą
1,096E-01	4.440E-02 ND 5.800E-03 5.500E-03 1.900E-03 1.946E-01 2.900E-03 1.530E-02 ND ND ND ND 3.790E-02 1.750E-02 1.750E-02	7.710E-02 ND 7.900E-03 9.100E-03 2.950E-03 2.25E-01 4.650E-03 2.435E-02 ND ND ND ND 2.100E-03 2.795E-02 1.576E-01 1.700E-03	2.450E-03 ND 4.500E-04 4.500E-04 5.000E-04 1.890E-02 3.500E-04 ND ND ND ND ND ND ND ND ND 1.100E-03 1.660E-04 1.100E-03 1.660E-04	1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04	1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04	Q	Q	ш	ш
Vy-2-pentene ND Py-2-pentene 9,900E-03 lexane 1,270E-02 ylperilane 4,000E-03 ylperilane 2,504E-01 ane ND ane ND spitane 2,000E-03 ylbexane 2,000E-03 sine ND sine ND sine ND sine 1,286E-01 sine 2,600E-03 sine 3,40E-02 sine 1,286E-01 sine 1,286E-01 sine 1,286E-01 sine 1,286E-01 sine 1,286E-02 sine 1,286E-02 sine 1,286E-01 sine 1,286E-02 sine 1,286E-02 sine ND	ND 5.900E-03 1.900E-03 1.900E-03 1.946E-01 2.900E-03 1.500E-02 ND ND ND ND 1.750E-02 1.750E-02 1.750E-02	ND ND 1.00E-03 9.100E-03 2.950E-03 2.225E-01 4.650E-03 2.435E-02 ND	ND 4.500E-04 4.500E-04 5.000E-04 1.890E-02 3.500E-04 7.500E-04 ND ND ND ND ND ND ND ND ND ND 1.100E-03 1.600E-03 1.600E-03	1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04	1.000E-04 1.000E-04 1.000E-04 1.000E-04	31.47	771.00	A	4
1,270E-02 1,270E-02 1,270E-02 1,270E-03 1,20E-03 2,504E-01 2,504E-01 2,504E-03 2,504E-03 1,000E-03 1,000E-03 1,000E-03 1,000E-03 1,000E-03 1,000E-02 1,000E-02 1,000E-02 1,000E-03 1	5.500E-03 5.500E-03 1.900E-03 1.900E-03 1.530E-02 1.530E-02 ND ND 2.200E-03 1.750E-02 1.750E-02 1.064E-01	7.900E-03 9.000E-03 2.225E-01 4.650E-03 2.435E-02 ND ND ND ND ND ND ND S.620E-03 2.795E-02 1.576E-01 1.576E-01	4,500E-04 4,500E-04 5,000E-04 1,890E-02 3,500E-04 7,500E-04 ND ND ND ND ND ND 1,100E-03 1,100E-03 1,600E-04	1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04	1.000E-04 1.000E-04 1.000E-04 1.000E-04	Q	QN	ı	ı
1,270E-02	5.500E-03 1.900E-03 1.946E-01 1.946E-01 1.530E-02 ND ND ND ND ND ND ND ND ND ND ND ND ND	9.100E-03 2.2950E-03 4.650E-03 2.435E-02 ND ND ND ND 2.100E-03 2.795E-02 ND S S S S S S S S S S S S S S S S S S S	4,500E-04 1,890E-04 7,500E-04 7,500E-04 ND ND ND 5,500E-04 1,100E-03 1,600E-03	1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04	1.000E-04 1.000E-04 1.000E-04	17.56	79.00	¥	4
ylpentane 4,000E-03 rexane 2,504E-01 nexane 6,400E-03 ane ND septane 2,000E-03 ylbexane 2,000E-03 xylene 2,000E-03 septane 7,450E-02 xylene 2,000E-03 septane 1,286E-01 ylbenzene 2,000E-03 septane 1,680E-02 wlb ND vlbenzene 3,100E-02 septane 1,680E-02 vlbenzene 3,100E-02 septane 1,006E-03 ND ND remeller ND remeller 1,006E-02 septane 1,006E-03 ND ND remeller ND remeller 1,006E-03 remeller 1,006E-03 remeller 1,006E-03 remeller 1,006E-01 remeller 1,006E-03 remeller 1,006E-03 remeller </td <td>1.900E-03 1.946E-01 2.900E-03 1.530E-02 ND ND ND 1.750E-02 1.750E-02 1.750E-02 1.750E-02</td> <td>2.950E-03 2.225E-01 4.650E-03 2.435E-02 ND ND 2.100E-03 2.795E-02 1.576E-01 1.700E-03</td> <td>5.000E-04 1.890E-02 7.500E-04 ND ND ND S.500E-04 1.100E-03 1.660E-03</td> <td>1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04</td> <td>1.000E-04 1.000E-04</td> <td>20.22</td> <td>91.00</td> <td>A</td> <td>A</td>	1.900E-03 1.946E-01 2.900E-03 1.530E-02 ND ND ND 1.750E-02 1.750E-02 1.750E-02 1.750E-02	2.950E-03 2.225E-01 4.650E-03 2.435E-02 ND ND 2.100E-03 2.795E-02 1.576E-01 1.700E-03	5.000E-04 1.890E-02 7.500E-04 ND ND ND S.500E-04 1.100E-03 1.660E-03	1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04	1.000E-04 1.000E-04	20.22	91.00	A	A
2.504E-01 lead and and another anothe	1.946E-01 2.900E-03 1.530E-02 ND ND 2.200E-03 1.750E-02 3.790E-02	2.225E-01 4.650E-03 2.435E-02 ND ND 2.100E-03 2.795E-02 1.576E-01 1.576E-01 1.700E-03	1.890E-02 3.500E-04 7.500E-04 ND ND 5.500E-04 1.100E-03 1.600E-03	1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04	1.000E-04	2:30	29.50	В	A
Second	2.900E-03 1.530E-02 ND ND 2.200E-03 1.750E-02 3.790E-02	4.650E-03 2.435E-02 ND ND ND S.2.100E-03 2.795E-02 ND 5.620E-02 1.576E-01	3.500E-04 7.500E-04 ND ND S.500E-04 1.100E-03 1.600E-03	1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04	1 000F-04	11.77	2225.00	Α	A
ane 3.340E-02 eptiane ND who was a ND who	1.530E-02 ND ND 2.200E-03 1.750E-02 ND ND 3.790E-02	2.435E-02 ND ND ND 2.100E-03 2.795E-02 ND ND 5.620E-02 1.576E-01	7.500E-04 ND ND 5.500E-04 1.100E-03 1.600E-03	1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04	10000	13.29	46.50	Α	٧
ND	ND ND 2.200E-03 1.750E-02 ND 3.790E-02	ND ND 2.100E-03 2.795E-02 ND 5.620E-02 1.576E-01 1.700E-03	5.500E-04 1.100E-03 4.050E-03	1.000E-04 1.000E-04 1.000E-04 1.000E-04	1.000E-04	32.47	243.50	A	Α
ND ND	ND 2.200E-03 1.750E-02 ND 3.790E-02 1.064E-01	ND 2.100E-03 2.795E-02 ND 5.620E-02 1.576E-01 1.700E-03	5.500E-04 1.100E-03 ND 4.050E-03	1.000E-04 1.000E-04 1.000E-04	1.000E-04	Q	Q	u.	u.
2,000E-03	2.200E-03 1.750E-02 ND 3.790E-02 1.064E-01	2.100E-03 2.795E-02 ND 5.620E-02 1.576E-01	5.500E-04 1.100E-03 ND 4.050E-03	1.000E-04 1.000E-04	1.000E-04	Q	9	щ	u.
ane ND 3.840E-02 ND 7.450E-02 7.450E-02 7.450E-02 7.100E-03 7.100E-03 7.100E-03 7.100E-02 7.100E-03 7.100E	1,750E-02 ND 3,790E-02 1,064E-01	2.795E-02 ND 5.620E-02 1.576E-01	1.100E-03 ND 4.050E-03 1.660E-02	1.000E-04 1.000E-04	1.000E-04	3.82	21.00	ပ	٧
Aylene 7.450E-02 -Xylene 2.087E-01 -Xylene 2.100E-03 -1.286E-01 -1.286E-01 -1.286E-01 -1.286E-01 -1.286E-01 -1.286E-02 -1.280E-02 -1.280E-02	3.790E-02 1.064E-01	5.620E-02 1.576E-01 1.700E-03	4.050E-03	1.000E-04	1.000E-04	25.41	279.50	A	٧
Xylene 7.450E-02 -Xylene 2.087E-01 2.0087E-01 2.000E-03 ane 1.286E-01 ane 2.600E-03 ane 3.100E-02 ane 4.280E-02 ane 3.100E-02 ane 4.280E-02 ane 3.100E-02 and ND ND ND romethane ND n ND	3.790E-02 1.064E-01	5.620E-02 1.576E-01 1.700E-03	4.050E-03	1000	1.000E-04	QN	QV	F	щ
Xylene 2.087E-01 2.100E-03 1.286E-01 1.286E-01 1.286E-01 1.286E-03 1.286E-03 1.680E-02 1.680E-02 1.680E-02 1.066E-01 1.066E-01 1.066E-01	1.064E-01	1.576E-01 1.700E-03	1 660F-02	1.000E-04	1.000E-04	13.88	562.00	∢	¥
2.100E-03 ine 1.286E-01 8.700E-03 ene 2.600E-03 ene 6.800E-02 e 3.100E-02 dybenzene 8.sec-Butylbenzene 1.066E-01 ylbenzene 8.sec-Butylbenzene 1.066E-01 ylbenzene 9.2010E-02 e ND ND incrocethane ND i		1.700E-03		1.000E-04	1.000E-04	9.49	1575.50	В	٧
1,286E-01 1,286E-01 1,280E-03 1,680E-02 1,680E-01 1,800E-02 1,800E-03	1.300E-03		2.000E-04	1.000E-04	1.000E-04	8.50	17.00	В	¥
8.700E-03 Inte	6.890E-02	9.875E-02	9.100E-03	1.000E-04	1.000E-04	10.85	987.50	¥	¥
1.680E-03	4.700E-03	6.700E-03	1.000E-03	1.000E-04	1.000E-04	6.70	67.00	В	¥
1,690E-02	1.400E-03	2.000E-03	Q	1.000E-04	1.000E-04	10.00	20.00	¥	¥
8 6 800E-02 9 6 800E-02 9 7 1,00E-02 9 7 1,00E-01 9 1,	9.400E-03	1.310E-02	1.700E-03	1.000E-04	1.000E-04	7.71	131.00	В	A
3.100E-02	3.870E-02	5.335E-02	7.550E-03	1.000E-04	1.000E-04	7.07	533.50	В	٧
4.280E-02 4.280E-02 4.280E-02 4.280E-02 4.280E-02 4.280E-03 4.28	1.770E-02	2.435E-02	3.500E-03	1.000E-04	1.000E-04	96.9	243.50	В	∢ .
e 2.010E-02 ylbenzene & sec-Butylbenzene (1.066E-01) ND ND ND ND In ND	2.530E-02	3.405E-02	5.000E-03	1.000E-04	1.000E-04	6.81	340.50	8	٨
1.066E-01	1.160E-02	1.585E-02	2.450E-03	1.000E-04	1.000E-04	6.47	158.50	В	٨
2.400E-03 ND	6.300E-02	8 480F-02	1 570F-02	1 0005-04	1 000F-04	5.40	848 00	α	4
ND ND ND ND ND ND ND ND	1 400F-03	1 900F-03	5 000F-04	1 000F-04	1 000F-04	3.80	20.61	C	A
ND ND ND ND ND ND ND ND	Q	Q.	9	1.000E-04	1.000E-04	2	2	T.	L
Carene ND ND ND Odifluoromethane Ordifluoroethane Instruction Instruction ND Odifluoroethane Instruction In	Q	ON	Q	1.000E-04	1.000E-04	Ð	Q	ı	L
1.35 E-01 1.35 E-01 1.35 E-01 1.35 E-01 ND ND ND ND ND ND ND N	ND	ON	ON	1.000E-04	1.000E-04	QN	QN	F	F
1.351E-01	QN	ON	QN	1,000E-04	1.000E-04	QN	QN	F	Ŧ
ND	4.490E-02	9.000E-02	2.150E-03	1.000E-04	1.000E-04	41.86	900.006	Ą	A
3.141E-03 Increthane 3.141E-03 ND	Q	Q	QV	1.000E-04	1.000E-04	Q	Q	ட	u.
ND N	1.657E-03	2.399E-03	1.434E-03	4.992E-04	4.992E-04	1.67	4.81	اٍ ۵	0
ND ND 2.034E-02 ND ND	Q	2	9	2.080E-04	2.080E-04	2	2	L.	u.
2.034E-02 ND ND ND	2 5	2	2	7.114E-04	7.114E-04	2	2	1	-
Z.034E-0Z ND ND	ON I	ON S	ON!	2.621E-04	2.621E-U4		ON S	١.	
	1.729E-02	1.882E-02	Q.	2.246E-04	2.246E-04	10.00	83.76	A	∢
	2	2	2	3.952E-04	3.952E-04	2	2	1	٠ ا
יים ביים יים יים יים יים יים יים יים יים	ON COLOR	ON 00		2.683E-04	2.683E-04	28	2 8		-
ometnane 2.335E-03	Z.193E-03	Z.264E-U3	2.506E-03	5.699E-04	5.699E-04	0.30	76.6	ı l	ا د
Methylogochloride F 400	+	NO DESCRIPTION OF	NO 3024 0	4.035E-04	4.035E-04	ON .	UN SA KG	L	L
NO.	\dagger	ND ND	NO ON	3.1825-04	3.1825-04	S C C	CN	և	ζ LL
ro-1 2 2-trifluoroethane 6 739E-04		6 602E-04	8 291E-04	7 R21E-04	7 R21E-04	080	0.84	L	u
ND	NO CE	NID CITY	ND ND	4 118E-04	4 118E-04	89	5 5	. u	. u

TABLE A-7. AEC - VOC DATA EVALUATION FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1998)

Compound (a)	Average Concentration - Run 1, mg/m³	Average Concentration - Run 2, mg/m³	Average Concentration - Run 1-2, mg/m³	Average Background - Concentration, mg/m²	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³	Background Evaluation Criteria	Minimum Detection Limit Evaluation Criteria	Background Évaluation Notes	Minimum Detection Limit Evaluation Notes
1,2-Dichloroethene	QN	QN	QN	QN	4.035E-04	4.035E-04	QN	QN	Ь	ц
Chloroform	QN	QN	QN	QN	4.950E-04	4.950E-04	ON	QN	ĮT.	u.
1,2-Dichloroethane	Q	9	Q	Q	4.118E-04	4.118E-04	2	Q	և	ц.
Methylchloroform	QN	3.192E-04	3.192E-04	3.562E-04	5.533E-04	5.533E-04	0.90	0.58	ı.	u.
Benzene	1.254E+00	5.228E-01	8.885E-01	3.153E-03	3.245E-04	3.245E-04	281.77	2738.09	∢ u	A
1 2 Dishloromona	4.090E-U4	0.10UE-U4	3.339E-04	7.3885-04	0.400E-04	0.400E-04	2.7	0.90	L	
Ticklosophysos				22	4.701E-04	4.701E-04	2 2	2 2		
i nchioroethylene		2 2	2 2	2	5.533E-04	5.533E-04	2 5	2 2		
dis 1,3-Dichloro-1-propene	202	2	2 2	2 5	4.618E-04	4.618E-04	2 2	2 2	בע	L U
tals t,s-Dictional-1-properie		2 2		2 2	4.0100-04	4.010E-04	2 2	2 2	L	L U
Toliana	2 547F±00	1 9795	0 2635±00	1 9295.02	3.555E-04	3 827E-04	117.70	5013 18		
1.2-Dibromoethane	QN	QN	GN	GN	7.821E-04	7.821E-04	Q	Q	1	-
Perchloroethylene	4.875E-02	Q	4.875E-02	QV	6.906E-04	6.906E-04	10.00	70.60	A	A
Chlorobenzene	QN	Q	Q	ON	4.701E-04	4.701E-04	QN	QN	LL.	L
Ethylbenzene	1.144E+00	5.819E-01	8.628E-01	6.218E-03	6.656E-04	6.656E-04	138.77	1296.31	A	Y .
m&p-Xylene	2.122E+00	1.082E+00	1.602E+00	1.677E-02	4.410E-04	4.410E-04	95.56	3633.42	٧	¥
Styrene	QN	1.266E-02	1.266E-02	2.439E-04	4.326E-04	4.326E-04	51.88	29.25	¥	A
1,1,2,2-Tetrachloroethane	QN	ND	ON	QN	6.989E-04	6.989E-04	ND	QN	F	F
o-Xylene	1.308E+00	7.008E-01	1.004E+00	9.256E-03	4.410E-04	4.410E-04	108.52	2277.77	¥	Α
p-Ethyltoluene	4.606E-01	2.523E-01	3.565E-01	1.673E-02	4.992E-04	4.992E-04	21.31	714.08	¥	¥
1,3,5-Trimethylbenzene	4.434E-01	2.427E-01	3.430E-01	7.637E-03	4.992E-04	4.992E-04	44.92	687.20	¥	A
1,2,4-Trimethylbenzene	8.540E-01	4.907E-01	6.724E-01	1.519E-02	4.992E-04	4.992E-04	44.28	1346.91	∢	A
Denzyichloride S: ' '	2	2		2	5.283E-04	5.283E-04	QV.	Q !	١.	.
m-Uchlorobenzene	2	2 4	ON.	2 2	6.115E-04	6.115E-04	2	2	<u>.</u>	
p-Dichioropenzene	2 5	2	ON.	2	6.115E-04	6.115E-04	2	2	1 1	1
o-Dichlordenzene	2 2	2 2	2	2	6.115E-04	6.115E-04	2	2		
1,2,4-1ricillorobenzene	22	2 2	2 2	2 2	7.530E-04	7.530E-04	29	2 9	١	
Department	Q Q	2 2	2 2	ON LOCAL	1.086E-03	1.086E-03	2 2	2 2	ı.	1
nenyiacetyiene ndana	1 895F-01	1 103F-01	1 499F-01	6.579E-04	4.243E-04	4.243E-04	ND 24 11	305 35	L	L
3-Dihydro-1-methyl-1H-indene	5 526F-02	3 869E-02	4 698F-02	3.747E-03	5.4915.04	5.491E.04	12 54	85.55	. Δ	Α .
2,3-Dihydro-4-methyl-1H-indene	7.088E-02	4.780E-02	5.934E-02	4.893E-03	5.491E-04	5.491E-04	12.13	108.06	<	V
Naphthalene	9.168E-02	4.951E-02	7.060E-02	7.803E-03	5.325E-04	5.325E-04	9.05	132.58	8	A
2-Methylnaphthalene	9.285E-03	ND	9.285E-03	2.818E-03	5.907E-04	5.907E-04	3.30	15.72	၁	A
1-Methyinaphthalene	S	Q	QN	1.102E-03	5.907E-04	5.907E-04	ON	QV	L	L.
Cyanogen	Q	Q	Q	Q	2.163E-04	2.163E-04	Q	Q	щ	ш
Methylnitrite	3.079E-02	4.049E-02	3.564E-02	Q	2.538E-04	2.538E-04	10.00	140.44	4	٧
Acetonitrile	Q	ND	Q	Q	1.706E-04	1.706E-04	QN	Q	ц.	L.
Acrylonitrile	QN	QV	Q	ND	2.205E-04	2.205E-04	ND	NO	F	ш
Nitromethane	5.450E-03	5.529E-03	5.490E-03	8.363E-04	2.538E-04	2.538E-04	6.56	21.63	8	٧
Propanenitrile	Q	Q	Q	ND	2.288E-04	2.288E-04	Q	Q	L.	ш
2-Methylpropanenitrile	Q	Q	Q	Q	2.870E-04	2.870E-04	Q	2	L	ш.
Pentanenitrile	Q	9	2	Q	3.453E-04	3.453E-04	QV	2	ш	և
Hexanenitrile	2	Q	2	Q	4.035E-04	4.035E-04	QQ.	Q	щ	ட
Benzonitrie	Q !	Q	2	2	4.285E-04	4.285E-04	Q	2	ш	4
Z-initrophenoi	UN 1981	ON I	ON L	2	5.782E-04	5.782E-04	ON.	QN S		1
Acroiein	7.706E-03	7.451E-03	7.579E-03	Q	2.330E-04	2.330E-04	10.00	32.53	V (Α.
Acerone	ON .	2.153E-02	2.153E-02	5.169E-03	2.330E-04	2.330E-04	4.1/	92.42	2	∢

TABLE A-7. AEC - VOC DATA EVALUATION FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1998)

少ない なびなど にゅうしゃ こうかん										
	Averana	Averace	Average	Average Background -	Average Maximum Detection Limit	Average Minimum Detection Limit	Barbarata	Minimum	Beckmening	Minimum
Compound (a)	Concentration -	Concentration - Run 2. ma/m³	Concentration -	Concentration,	Concentration,	Concentration,	Evaluation Criteria	Evaluation Criteria	Evaluation Notes	Evaluation
1-Hvdroxv-2-propanone	QN	QN	QN	QN	3.078E-04	3.078E-04	QN	QN	L	ш
Furan	QN	QN	QN	QV	2.829E-04	2.829E-04	QN	Q	L	L.
2-Propanol	QN	QN	Q	9	2.496E-04	2.496E-04	Q	Q	ட	u.
2-Methylpropanal	Q	Q	Q	Q	3.078E-04	3.078E-04	Q	2	ш	ட
1-Propanol	Q	QN	2	Q	2.496E-04	2.496E-04	Q	Ð	ட	L
Methacrolein	QN	QN	Q.	Q.	2.912E-04	2.912E-04	Q.	Ð	L	L.
Methyl-vinyl Ketone	QN	QN	QN	QN ON	2.912E-04	2.912E-04	Q	Q	u.	u.
MTBE	1.374E+00	4.558E-01	9.149E-01	2.181E-03	3.661E-04	3.661E-04	419.54	2499.18	ď	¥
2,3-Butanedione	QN	QN	QN	NO	3.578E-04	3.578E-04	QN	QN	u.	п
Butanal	QN	QN	Q	2.451E-04	2.995E-04	2.995E-04	ą	Q	u.	Щ
2-Butanone	1.217E-02	8.098E-03	1.013E-02	7.607E-04	2.995E-04	2.995E-04	13.32	33.83	¥	¥
2-Methyl-1,3-dioxolane	S	S	Q	ON.	3.661E-04	3.661E-04	Q	Q	ıπ	ш
2-Methylfuran	QN	QN	Ð	ON	3.411E-04	3.411E-04	Q	QN	ш	LL.
Tetrahydrofuran	S	2	Ð	QV	2.995E-04	2.995E-04	Q	Q	<u> </u>	u.
trans-2-Butenal	S	S	9	S	2.912E-04	2.912E-04	2	Q	ய	u
Acetic Acid	2.589E-02	1.653E-02	2.121E-02	1.627E-03	2.496E-04	2.496E-04	13.03	84.98	∢	¥
1-Butanol	QN	QN	QN	ND	3.078E-04	3.078E-04	QN	ON	Ŧ	LL.
2-Pentanone	QN	QN	QN	ND	3.578E-04	3.578E-04	QN	ON	Ŧ	u.
Pentanal	QN	QN	QN	1.159E-03	3.578E-04	3.578E-04	QN	ON	u.	4
1,4-Dioxane	ND	QN	QN	ND	3.661E-04	3.661E-04	ON	QN	ıŁ	ц
Methyl Methacryfate	Q	QN	QN	Q	4.160E-04	4.160E-04	ND	ND	ıL	u.
Cyclopentanone	ND	ON	ND	ND	3.494E-04	3.494E-04	QN	ND	ıL	ıL
Hexanal	ND	ON	QN	1.143E-03	4.160E-04	4.160E-04	QN	ON	ш	ш
2-Furaldehyde	ND	ND	QN	NO	3.994E-04	3.994€-04	QN	QN	u.	H.
Cyclohexanone	ON	ON	QN	ND	4.077E-04	4.077E-04	ON	ON	L.	Н
Heptanal	7.642E-03	5.009E-03	6.326E-03	1.027E-03	4.742E-04	4.742E-04	6.16	13.34	B _	٧
2-Butoxyethanol	ND	ND	QN	ND	4.909E-04	4.909E-04	QN	QN	ı.	L L
Benzaldehyde	4.080E-02	4.237E-02	4.159E-02	1.868E-03	4.410E-04	4.410E-04	22.26	94.31	A	¥
6-Methyl-5-hepten-2-one	Q	QV	Q	6.854E-04	5.242E-04	5.242E-04	S	QN	ш	u.
Octanal	2.056E-02	1.292E-02	1.674E-02	2.349E-03	5.325E-04	5.325E-04	7.13	31.43	В	¥
Benzofuran	Q	QN	Q	Q	4.909E-04	4.909E-04	Q	QN	ட	L
2-Ethyt-1-hexanol	ND	ND	ON	NO	4.992E-04	4.992E-04	QN	QN	н	ட
Acetophonone	ON	ND	ON	ND	4.992E-04	4.992E-04	ON	QN	ш	ш
Nonanal	2.979E-02	1.730E-02	2.354E-02	4.077E-03	5.907E-04	5.907E-04	5.77	39.85	8	ď
Decanal	2.804E-02	1.159E-02	1.982E-02	2.462E-03	6.490E-04	6.490E-04	8.05	30.54	В	A
Carbonyl Sulfide	2.387E-03	2.577E-03	2.482E-03	2.681E-04	2.496E-04	2.496E-04	9.26	9.94	8	8
Carbon Disulfide	5.180E-03	1.186E-02	8.522E-03	5.882E-04	3.162E-04	3.162E-04	14.49	26.95	A	A
Thiophene	Q	QN	QN	ON	3.494E-04	3.494E-04	QN	QN	at i	Ŀ
Dimethyldisulfide	ON	QV	Q	ND	3.910E-04	3.910E-04	Q	QN	ш	ш

a Compounds in bold represent duplicate values.

A = Identified as a contaminant (greater than or equal to 10 times background or minimum MQL)

B = Likely contaminant (less than 10 and greater than or equal to 5 times background or minimum MQL)

C = Probable contaminant (less than 5 and greater than or equal to 2 times background or minimum MQL)

D = Measured, but accuracy or presence questionable (less than 2 and greater than or equal to 1 times background or minimum MQL)

F = Not considered a contaminant (less than 1 times background or minimum MQL)

TABLE A-8. AEC - VOC RUN NO. 1 DATA FOR SIMULATOR FLASH ARITLLERY TEST (28 MARCH 1998)

Particularies Particularie	Compound (a)	Molecular Weight	Average Concentration - Run 1, ppbv	Average Concentration - Run 1, mg/m³	Background - Concentration, mg/m³	Background Corrected Concentration -	Dilution Correction Factor (b), %	Corrected Concentration Run 1, mg/m³	Initial Plume Volume, ft²	Sample Total Material - Run 1, lb	Number of Rems	Corrected Emission Factor - Run 1, Ib/Item
1.00 1.00	Total Nonmethane Hydrocarbons (TNMHC)											
Against Compounds (1905) 30 1.389 1.0006-101 2.0006-101 1.0006	TNMHC				3.990E-02	2.980E+00	0.9071	3.285E+00	33,908	6.953E-03	-	6.953E-03
10. 1.222 1.000E-20 2.000E-20 0.0071 0.007	Volatile Organic Compounds (VOCs)											
18.0 19.0 2.2 19.0 5.2 19.0 5.2 19.0 5.2 19.0 5.2 19.0 5.2 19.0<	Ethane	30	1.282	1.600E-03	2.300E-03	-7.000E-04	0.9071	QN	33,908	ON	1	QN
tens 7.369 6.000-67 1.000-67 7.	Ethylene	28	19.059	2.220E-02	4.000E-04	2.180E-02	0.9071	2.403E-02	33,908	5.087E-05	1	5.087E-05
44 6.279 5.0000E-04 1.000E-04 0.00771 NO 22.776-0 1.000E-04 1.000E-04 0.000T-04 1.001E-03 3.000E-03 2.000E-04 1.000E-04 3.000E-03 3.000E-03 2.000E-03 2.000E-03 3.000E-03 2.000E-03 3.000E-03	Acetylene	26	7.396	8.000E-03	8.000E-04	7.200E-03	0.9071	7.937E-03	33,908	1.680E-05	1	1.680E-05
48 5.45 5.5000E-50 1.00DE-64 9.500E-63 0.00DE-64 9.500E-63 0.00DE-64 9.500E-63 0.00DE-64 9.500E-63 0.2077 1.00DE-63 0.2	Propane	44	0.273	5.000E-04	1.000E-03	-5.000E-04	0.9071	QN	33,908	ON	-	QN
569 1,4451 3,500,E-03 4,000,E-04 3,000,E-03 0,007 3,117E-03 33,500 7,224E-04 1,500,E-03 1	Propene	42	5.495	9.600E-03	1.000E-04	9.500E-03	0.9071	1.047E-02	33,908	2.217E-05	-	2.217E-05
56 0.5876 6.100E-03 N.D 6.700E-03 0.0077 7.358E-03 35.308 15.60E-03 1 56 0.5876 6.100E-03 8.700E-03 0.0077 7.358E-03 35.308 15.60E-03 1 56 0.050 2.000E-03 8.000E-03 0.0077 2.500E-03 35.308 4.60F-06 1 56 0.073 2.000E-03 8.00DE-03 0.0077 2.505E-03 35.308 4.60F-06 1 72 0.073 2.00E-03 0.0077 1.505E-03 35.308 1.60F-06 1 72 0.073 4.00E-03 0.0077 1.505E-03 35.308 1.50F-06 1 72 0.0215 5.00E-04 ND 2.00E-04 0.0077 1.50E-04 35.30E-07 1.50E-06 1 72 0.0215 5.00E-04 ND 2.00E-04 0.0077 1.50E-04 35.30E-07 1.50E-06 1 72 0.0215 2.00E-04 ND 2.00E-04 0.0077 </td <td>i-Butane</td> <td>58</td> <td>1.451</td> <td>3.500E-03</td> <td>4.000E-04</td> <td>3.100E-03</td> <td>0.9071</td> <td>3.417E-03</td> <td>33,908</td> <td>7.234E-06</td> <td>-</td> <td>7.234E-06</td>	i-Butane	58	1.451	3.500E-03	4.000E-04	3.100E-03	0.9071	3.417E-03	33,908	7.234E-06	-	7.234E-06
54 0.887 2.300E-03 N.D 2.300E-03 0.8071 2.20E-02 33,908 5.87E-06 1 54 0.889 2.300E-02 N.D 2.00E-03 0.8071 2.20E-02 33,908 5.87E-06 1 55 0.730 1.70E-02 0.8071 2.20E-02 33,908 4.66F-05 1 56 0.730 1.70E-02 0.8071 2.70E-02 33,908 4.66F-05 1 56 0.730 1.70E-04 N.D 1.00E-04 0.8071 1.70E-04 33,908 4.66F-05 1 70 0.215 1.00E-04 N.D 1.00E-04 0.8071 1.70E-04 33,908 1.67E-04 1 70 0.481 1.20E-04 N.D 1.00E-04 1.00E-04 33,908 3,280E-07 1 70 0.441 1.20E-04 N.D 1.00E-04 1.00E-04 3,390B 2,376E-04 1 70 0.757 1.20E-02 1.00E-04 1.00E-04 1.00E-0	i-Butene	56	2.876	6.700E-03	QV	6.700E-03	0.9071	7.386E-03	33,908	1.564E-05	-	1.564E-05
54 0.899 2.000E-04 2.000E-04 0.0071 2.000E-04 3.500E-04 4.667E-06 1.700E-04 1.700E-03 0.0071 2.500E-02 3.500E-04 4.667E-06 1.700E-04 1.700E-03 0.0071 2.500E-04 3.500E-04 1.700E-03 3.500E-04 1.700E-03 3.500E-04 1.700E-03 1.500E-04 1.700E-04	1-Butene	26	0.987	2.300E-03	QV	2.300E-03	0.9071	2.536E-03	33,908	5.367E-06	-	5.367E-06
58 8.4486 2.000EQA 1.000EQA 0.9971 1.47E6-02 3.59.08 4.86FE-69 1.00EPE-04 1.00EQA 72 N.D 1.00EQA N.D 1.00EQA 0.9971 1.47E6-02 33.908 4.86FE-69 1 72 N.D 1.00EQA N.D 1.00EQA 0.9971 4.41E6-04 33.908 1.46FE-04 1 70 0.2155 6.000EQA N.D 5.00EGA 0.9971 4.41E6-04 33.908 1.87E6-04 1 70 0.2155 6.000EQA N.D 1.00EGA 0.9971 1.41E6-04 33.908 1.87E6-04 1 70 0.2175 6.000EQA N.D 1.00EGA 0.9971 1.41E6-04 33.908 1.87E6-04 1 70 0.2170 6.00EQA N.D 1.00EGA 0.9971 1.41E6-04 33.908 1.61E6-04 1 70 0.137 4.00EQA N.D 1.00EGA 0.9971 1.41E6-04 33.908 1.61E6-04 1	1,3-Butadiene	54	0.890	2.000E-03	Q	2.000E-03	0.9071	2.205E-03	33,908	4.667E-06	-	4.667E-06
56 0.730 1,7006-59 ND 1,700E-30 0.8971 1874E-33 33,908 3,91E-50 1,700E-30 72 NLD ND ND 0.9971 1,87E-64 33,908 1,16F-60 1 70 0.125 5.000E-64 ND 1,000E-04 0.9971 1,16E-64 33,908 1,16F-60 1 70 0.127 2.000E-04 ND 1,000E-04 0.9971 1,16E-64 33,908 1,16F-60 1 70 0.127 2.000E-04 ND 1,000E-04 0.9971 1,16E-64 33,908 1,16F-60 1 70 0.172 5.000E-04 ND 1,000E-04 0.9971 1,10E-64 33,908 1,10F-60 1 70 0.172 5.000E-04 ND 1,000E-04 1,10E-62 0.9971 1,10E-04 33,908 1,10E-64 1 70 0.172 5.000E-04 ND 4,00E-04 0.9971 1,10E-04 33,908 1,10E-04 1 <tr< td=""><td>n-Butane</td><td>58</td><td>8.496</td><td>2.050E-02</td><td>5.000E-04</td><td>2.000E-02</td><td>0.9071</td><td>2.205E-02</td><td>33,908</td><td>4.667E-05</td><td>-</td><td>4.667E-05</td></tr<>	n-Butane	58	8.496	2.050E-02	5.000E-04	2.000E-02	0.9071	2.205E-02	33,908	4.667E-05	-	4.667E-05
72 ND ND ND ND SONGE OF 10 177 (1997) STREED 33,908 IND 11,175 (1997) 72 0.137 4,000E-04 ND 5,000E-04 0.9977 1,410E-07 33,908 1,187E-04 1 72 0.457 1,400E-04 ND 1,000E-04 0.9977 1,410E-07 33,908 1,187E-04 1 72 0.457 1,400E-04 ND 1,000E-04 0.9977 1,187E-07 33,908 1,187E-04 1 70 0.457 1,400E-04 ND 1,000E-04 0.9977 1,140E-07 33,908 1,187E-04 1 70 0.457 1,400E-04 ND 1,400E-04 0.9977 1,140E-07 3,290B 2,290B 2,290E-04 1 70 0.157 4,000E-04 ND 1,000E-04 0.9977 1,140E-07 3,390B 2,170E-07 1 70 0.157 4,000E-04 ND 4,000E-04 0.9977 4,110E-07 3,390B 2,470E	trans-2-Butene	26	0.730	1.700E-03	Q	1.700E-03	0.9071	1.874E-03	33,908	3.967E-06	-	3.967E-06
56 0.137 5.00000-0 0.9071 5.512E-01 3.512E-07 3.512E-07 <td>2,2-Dimethylpropane</td> <td>72</td> <td>Q</td> <td>Q</td> <td>Q</td> <td>QV</td> <td>0.9071</td> <td>Q</td> <td>33,908</td> <td>Q</td> <td>1</td> <td>Q</td>	2,2-Dimethylpropane	72	Q	Q	Q	QV	0.9071	Q	33,908	Q	1	Q
70 6137 4,000E-04 ND 4,000E-04 0,9071 1,537E-04 33,506 2,575E-07 1 70 0,417 1,400E-03 1,000E-04 0,9071 1,538E-07 33,000 1,567E-06 1 70 0,4275 1,000E-04 ND 1,000E-04 0,9071 1,538E-07 33,000 1,567E-06 1 70 0,4276 1,000E-04 ND 1,000E-04 0,9071 1,538E-07 33,000 2,596E-04 1 70 0,627 1,000E-04 ND 0,000E-04 0,9071 1,538E-07 1 1 70 0,127 4,000E-04 ND 0,000E-04 0,9071 1,538E-07 1 1 80 0,137 4,000E-04 ND 0,000E-04 0,9071 1,410E-04 33,000 2,596E-04 1 80 0,137 4,000E-04 ND 0,000E-04 0,9071 1,410E-04 33,000 2,596E-07 1 80 0,137 1,000E-	cis-2-Butene	56	0.215	5.000E-04	QN	5.000E-04	0.9071	5.512E-04	33,908	1.167E-06	1	1.167E-06
72 41433 1.241E-01 1.000E-04 1.051E-01 3.637E-04 1.357E-01 38.308 1.247E-04 1 70 0.275 6.0481 1.000E-04 ND 1.000E-04 0.0977 1.435E-07 33.908 1.87EE-06 1 70 0.275 4.0481 1.000E-04 ND 1.000E-04 0.0977 1.445E-07 33.908 2.87EE-06 1 70 0.275 4.0250 1.000E-04 ND 1.000E-04 0.0977 1.440E-07 33.908 2.87EE-06 1 70 0.177 4.000E-04 ND 4.000E-04 0.0977 4.100E-04 33.908 2.87EE-07 1 86 0.141 4.000E-04 ND 4.000E-04 0.0977 4.100E-04 33.908 2.87EE-07 1 86 0.141 4.000E-04 ND 4.000E-04 0.0977 4.10E-04 33.908 2.11E-06 1 86 0.141 4.000E-04 ND 4.000E-04 0.0977 4.4	3-Methyl-1-butene	20	0.137	4.000E-04	QV	4.000E-04	0.9071	4.410E-04	33,908	9.335E-07	-	9.335E-07
70 0.275 8.000E-04 ND 8.000E-04 0.5071 8.619E-04 1.549E-07 0.819T-0 1.549E-07 1.398E-07 1.549E-07 0.8071 1.549E-07 0.8071 1.549E-07 0.8071 1.398E-07 0.8071 </td <td>i-Pentane</td> <td>72</td> <td>41.433</td> <td>1.241E-01</td> <td>1.000E-03</td> <td>1.231E-01</td> <td>0.9071</td> <td>1.357E-01</td> <td>33,908</td> <td>2.873E-04</td> <td>1</td> <td>2.873E-04</td>	i-Pentane	72	41.433	1.241E-01	1.000E-03	1.231E-01	0.9071	1.357E-01	33,908	2.873E-04	1	2.873E-04
70 0.441 1.400E-03 ND 1.600E-04 0.9071 1.545E-03 33.908 2.956E-04 1 68 0.005 1.005E-04 ND 1.000E-04 0.9071 1.338E-01 33.908 2.906E-07 1 70 0.075 1.202E-04 ND 5.000E-04 0.9071 1.512E-04 33.908 2.906E-07 1 70 0.137 4.000E-04 ND 5.000E-04 0.9071 4.100E-04 33.908 2.906E-07 1 86 3.131 1.100E-04 ND 4.000E-04 0.9071 4.100E-04 33.908 9.355E-07 1 88 0.141 4.000E-04 ND 4.000E-04 0.9071 4.100E-04 33.908 9.355E-07 1 89 0.141 4.000E-04 ND 4.000E-04 0.9071 4.100E-04 33.908 9.355E-07 1 80 0.141 4.000E-04 ND 4.000E-04 0.9071 4.100E-04 33.908 9.355E-07 1 <td>1-Pentene</td> <td>22</td> <td>0.275</td> <td>8.000E-04</td> <td>Q</td> <td>8.000E-04</td> <td>0.9071</td> <td>8.819E-04</td> <td>33,908</td> <td>1.867E-06</td> <td>1</td> <td>1.867E-06</td>	1-Pentene	22	0.275	8.000E-04	Q	8.000E-04	0.9071	8.819E-04	33,908	1.867E-06	1	1.867E-06
72 42,501 1,378-01 1,000E-04 1,200E-04 1,000E-04	2-Methyl-1-butene	٩	0.481	1.400E-03	₽	1.400E-03	0.9071	1.543E-03	33,908	3.267E-06	-	3.267E-06
68 0.055 1,000E-04 ND 1,000E-04 0.9971 1,102E-04 33,908 2,334E-07 1 70 0.172 5,000E-04 ND 5,000E-04 0.9971 5,512E-04 33,908 2,100E-06 1 70 0.172 5,000E-04 ND 5,000E-04 0.9971 5,512E-04 33,908 2,116E-06 1 86 3,131 1,120E-02 1,000E-04 1,100E-02 0.9971 4,116E-04 33,908 2,35E-07 1 88 0,114 4,000E-04 ND 4,000E-04 0.9971 4,410E-04 33,908 2,35E-07 1 89 0,114 4,000E-04 ND 4,000E-04 0.9971 4,410E-04 33,908 2,43E-06 1 80 6,688 1,000E-04 1,	n-Pentane	72	42.501	1.273E-01	9.000E-04	1.264E-01	0.9071	1.393E-01	33,908	2.950E-04	-	2.950E-04
70 0.1372 5,000E-04 ND 9,000E-04 0.9071 8,328E-04 33,908 2,100E-06 1 70 0.137 4,000E-04 ND 5,000E-04 0.9071 4,10E-04 33,908 1,16FE-06 1 86 3,131 1,000E-04 ND 4,000E-04 0.9071 4,10E-04 33,908 9,335E-07 1 88 0,141 4,000E-04 ND 4,000E-04 0.9071 4,410E-04 33,908 9,335E-07 1 89 0,144 4,000E-04 ND 4,000E-04 0.9071 4,410E-04 33,908 9,335E-07 1 89 0,144 4,000E-04 ND 4,000E-04 0.9071 4,410E-04 33,908 9,335E-07 1 80 6,898 2,500E-02 4,000E-04 1,000E-04 0.9071 1,410E-04 33,908 2,541E-05 1 84 0,200 7,000E-04 1,000E-04 0.9071 1,410E-04 33,908 2,541E-05 1	soprene	88	0.035	1.000E-04	Q	1.000E-04	0.9071	1.102E-04	33,908	2.334E-07	-	2.334E-07
70 0.172 5,000E-04 NU 5,000E-04 0.9071 5,51E-04 33,308 1,15PE-06 1 86 3.131 1,120E-02 1,000E-04 0.9071 1,12E-02 33,308 2,53E-07 1 86 0.141 4,000E-04 ND 4,000E-04 0.9071 1,12E-02 33,908 9,335E-07 1 89 0.144 4,000E-04 ND 4,000E-04 0.9071 4,410E-04 33,908 9,335E-07 1 70 3,868 1,50E-02 1,000E-04 2,00E-02 0.9071 4,410E-04 33,908 2,427E-05 1 86 6,58B 2,50E-02 1,000E-04 2,40E-02 0.9071 4,410E-04 33,908 2,427E-05 1 86 6,58B 2,50CE-02 1,000E-04 1,00E-02 0.9071 1,410E-04 33,908 2,427E-05 1 81 0.20 7,00E-04 ND 1,00E-04 1,00E-04 3,00E-02 1,00E-04 1,00E-04 1,00E-04	trans-2-Pentene	۱ ا	0.309	9.000E-04	Q :	9.000E-04	0.9071	9.922E-04	33,908	2.100E-06	-	2.100E-06
66 0.137 4.700E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 0.9071 1.224E-02 33,908 2.539E-07 1 68 0.141 4.000E-04 1.000E-04 0.9071 4.10E-04 33,908 2.530E-07 1 70 3.606 1.050E-02 1.000E-04 1.000E-04 0.9071 4.17E-02 33,908 2.427E-05 1 86 6.588 2.500E-02 4.000E-04 1.040E-02 0.9071 4.17E-02 33,908 2.427E-05 1 86 6.588 2.500E-02 4.000E-04 1.040E-02 0.9071 4.17E-02 33,908 2.427E-05 1 86 2.4877 8.500E-02 7.000E-04 1.000T 7.17E-02 33,908 2.90E-04 1 84 0.114 4.000E-04 ND 7.000E-04 0.9071 7.17E-02 33,908 2.50E-07 1 84 0.114 4.000E-04 ND 4.000E-04	cis-2-Pentene	2 1	0.172	5.000E-04	2	5.000E-04	0.9071	5.512E-04	33,908	1.16/E-06	-	1.16/E-06
68 0.141 4.000E-04 1.000E-04 0.0971 4.10E-04 3.508 9.335E-07 1 84 0.144 4.000E-04 ND 4.000E-04 0.9071 4.410E-04 33.908 9.335E-07 1 86 6.986 1.050E-02 1.000E-04 1.040E-02 0.9071 4.410E-04 33.908 2.41E-05 1 86 6.988 2.500E-02 4.000E-04 1.040E-02 0.9071 2.71E-02 33.908 2.74E-05 1 86 6.988 2.500E-02 4.000E-04 1.040E-02 0.9071 1.77E-02 33.908 2.74E-05 1 86 35.107 1.256E-01 1.000E-04 1.000E-04 0.9071 1.77E-02 33.908 5.74E-05 1 84 0.200 1.000E-04 1.000E-04 0.9071 1.57E-02 33.908 2.06E-04 1 84 0.114 4.000E-04 ND 7.00E-04 0.9071 4.410E-04 33.908 1.24E-0 1	2 Dimethylhidana	0/	2 131	4.000E-04	ND TOWN	4.000E-04	0.907	4.4 IUE-04	33,908	9.335E-07	-	9.335E-07
B4	Cyclopentene	88	0.121	4 000E-04	NO.	4 000E-04	0.30	4 410E-04	33 908	9.335E-03	-	0 335E-07
70 \$606 1,000E-02 1,040E-02 0.9071 1,147E-02 33,908 2,427E-05 1 86 6.988 2,500E-02 4,000E-04 2,400E-02 0.9071 1,147E-02 33,908 2,71E-05 1 86 35,107 1,256E-01 1,000E-03 1,246E-01 0.9071 1,374E-01 33,908 2,00E-04 1 86 24,877 8,900E-02 7,000E-04 8,830E-02 0.9071 1,374E-01 33,908 2,00E-04 1 84 0.710 4,000E-04 ND 7,000E-04 0.9071 1,374E-01 33,908 1,634E-06 1 84 0.714 4,000E-04 ND 7,000E-04 0.9071 1,777E-04 33,908 1,634E-06 1 84 0.714 4,000E-04 ND 7,000E-04 0.9071 4,410E-04 33,908 1,634E-06 1 84 0.714 4,000E-04 ND 7,000E-04 0.9071 4,410E-04 33,908 1,634E-07 1	4-Methyl-1-pentene	84	0.114	4.000F-04	S	4 000F-04	0.0071	4.410E-04	33.908	9.335F-07	-	9.335F-07
86 6.988 2.500E-02 4,000E-04 2.460E-02 0.9071 2.712E-02 33,908 5.741E-05 1 84 ND ND ND 0.9071 1.374E-01 33,908 5.741E-05 1 86 24,517 1.26E-02 1.000E-03 1.26E-01 1.000E-04 1.374E-01 33,908 2.86E-04 1 86 24,877 8.90E-02 7.000E-04 ND 7.000E-04 0.9071 7.71E-04 33,908 2.061E-04 1 84 0.200 7.000E-04 ND 7.000E-04 0.9071 7.71F-04 33,908 1.634E-06 1 84 0.114 4.000E-04 ND 7.000E-04 0.9071 7.71F-04 33,908 1.634E-06 1 84 0.200 7.000E-04 ND 7.000E-04 0.9071 7.71F-04 33,908 1.634E-06 1 84 0.114 4.000E-04 ND 7.000E-04 0.9071 7.71F-04 33,908 1.634E-06 1 <td>Cyclopentane</td> <td>02</td> <td>3.606</td> <td>1.050E-02</td> <td>1.000E-04</td> <td>1.040E-02</td> <td>0.9071</td> <td>1.147E-02</td> <td>33,908</td> <td>2.427E-05</td> <td>-</td> <td>2.427E-05</td>	Cyclopentane	02	3.606	1.050E-02	1.000E-04	1.040E-02	0.9071	1.147E-02	33,908	2.427E-05	-	2.427E-05
84 ND ND ND ND 0.9071 ND 33.908 ND 1 86 24.877 8.5107 1.000E-04 1.246E-01 0.9071 1.734E-01 33.908 2.061E-04 1 84 0.200 7.000E-04 ND 7.000E-04 0.9071 7.717E-04 33.908 2.061E-04 1 84 0.200 7.000E-04 ND 7.000E-04 0.9071 7.717E-04 33.908 1.634E-06 1 84 0.114 4.000E-04 ND 7.000E-04 0.9071 4.710E-04 33.908 1.634E-06 1 84 0.114 4.000E-04 ND 4.000E-04 0.9071 4.410E-04 33.908 1.634E-06 1 84 0.114 4.000E-04 ND 4.000E-04 0.9071 4.410E-04 33.908 1.634E-06 1 100 3.582 1.430E-02 4.000E-04 ND 4.000E-04 0.9071 4.410E-04 33.908 1.634E-06 1 </td <td>2,3-Dimethylbutane</td> <td>98</td> <td>6.988</td> <td>2.500E-02</td> <td>4.000E-04</td> <td>2.460E-02</td> <td>0.9071</td> <td>2.712E-02</td> <td>33,908</td> <td>5.741E-05</td> <td>_</td> <td>5.741E-05</td>	2,3-Dimethylbutane	98	6.988	2.500E-02	4.000E-04	2.460E-02	0.9071	2.712E-02	33,908	5.741E-05	_	5.741E-05
86 35.107 1.256E-01 1.000E-03 1.246E-01 0.9071 1.374E-01 33.908 2.908E-04 1 86 24.877 8.906E-02 7.000E-04 8.080E-02 0.9071 9.734E-02 33.908 1.634E-06 1 84 0.114 4.000E-04 ND 4.000E-04 0.9071 4.416E-04 33.908 1.634E-06 1 84 0.114 4.000E-04 ND 7.000E-04 0.9071 4.416E-04 33.908 1.634E-06 1 84 0.114 4.000E-04 ND 7.000E-04 0.9071 4.416E-04 33.908 1.64E-06 1 84 0.114 4.000E-04 ND 4.000E-04 0.9071 4.416E-04 33.908 1.24EE-0 1 100 3.582 1.430E-02 4.000E-04 0.9071 4.416E-04 33.908 1.24EE-04 1 100 3.582 1.430E-02 4.000E-04 0.9071 4.416E-04 33.908 1.24EE-04 1	cis-4-Methyl-2-pentene	84	QN	QN	QN	GN	0.9071	QN	33,908	QN	1	QN
86 24.877 8.900E-02 7.000E-04 8.830E-02 0.9071 9.734E-02 33.908 2.061E-04 1 84 0.200 7.000E-04 ND 7.000E-04 0.9071 7.71F-04 33.908 1.634E-06 1 84 0.196 4.000E-04 1.430E-01 0.9071 4.410E-04 33.908 9.335E-07 1 84 0.114 4.000E-04 ND 7.000E-04 0.9071 4.410E-04 33.908 1.634E-06 1 84 0.114 4.000E-04 ND 7.000E-04 0.9071 4.410E-04 33.908 9.335E-07 1 84 0.114 4.000E-04 ND 4.000E-04 0.9071 4.410E-04 33.908 1.24E-04 1 100 3.582 1.480E-02 4.000E-04 1.410E-02 0.9071 4.410E-04 33.908 1.24E-04 1 100 3.582 1.480E-02 4.000E-04 1.410E-02 0.9071 4.410E-04 33.908 1.24E-04 1 <td>2-Methylpentane</td> <td>98</td> <td>35.107</td> <td>1.256E-01</td> <td>1.000E-03</td> <td>1.246E-01</td> <td>0.9071</td> <td>1.374E-01</td> <td>33,908</td> <td>2.908E-04</td> <td>-</td> <td>2.908E-04</td>	2-Methylpentane	98	35.107	1.256E-01	1.000E-03	1.246E-01	0.9071	1.374E-01	33,908	2.908E-04	-	2.908E-04
84 0.200 7,000E-04 ND 7,000E-04 0.9071 7,717E-04 33,908 1,634E-06 1 84 0.114 4,000E-04 1,000E-04 0.9071 4,717E-04 33,908 9,335E-07 1 84 0.200 7,000E-04 1,000E-04 0.9071 7,717E-04 33,908 1,634E-06 1 84 0.114 4,000E-04 ND 7,000E-04 0.9071 4,410E-04 33,908 9,335E-07 1 100 3,356 6,30E-02 ND 4,000E-04 0.9071 4,410E-04 33,908 9,335E-07 1 100 3,556 6,30E-02 4,000E-04 1,000E-04 0.9071 4,410E-04 33,908 1,246E-04 1 100 3,580 1,23E-02 0.9077 1,547E-01 33,908 1,246E-04 1 100 3,590 1,23SE-07 1,100E-03 1,202E-01 0.9077 1,347E-01 33,908 1,246E-04 1 100 3,590	3-Methylpentane	98	24.877	8.900E-02	7.000E-04	8.830E-02	0.9071	9.734E-02	33,908	2.061E-04	-	2.061E-04
84 0.114 4.000E-04 ND 4.000E-01 0.9071 4.410E-04 33.908 9.335E-07 1 86 40.195 1.436E-01 8.000E-04 1.430E-01 1.536E-01 33.908 9.335E-07 1 84 0.200 ND 7.000E-04 0.9071 4.410E-04 33.908 9.335E-07 1 84 0.114 4.000E-04 ND 4.000E-04 0.9071 4.410E-04 33.908 9.335E-07 1 84 0.114 4.000E-04 ND 4.000E-04 0.9071 4.410E-04 33.908 9.335E-07 1 70 3.580E-02 1.380E-02 4.000E-04 1.222E-01 0.9071 1.54E-02 33.908 1.24E-04 1 84 18.172 6.350E-02 2.000E-04 1.30E-02 0.9071 1.54E-02 33.908 1.47F-04 1 100 17.66B 7.350E-02 2.000E-04 7.310E-02 0.9071 8.95E-02 33.908 1.47F-04 1	2-Methyl-1-pentene	84	0.200	7.000E-04	Q	7.000E-04	0.9071	7.717E-04	33,908	1.634E-06	-	1.634E-06
86 40.195 14.38E-01 8.000E-04 1.430E-01 1.576E-01 33.908 3.37E-04 1 84 0.200 1.000E-04 ND 7.000E-04 0.9071 7.717E-04 33.908 1.634E-06 1 84 0.114 4.000E-04 ND 4.000E-04 0.9071 4.410E-04 33.908 9.335E-07 1 100 3.582 1.300E-02 4.000E-04 0.9071 4.410E-04 33.908 9.335E-07 1 100 3.582 1.400E-02 4.000E-04 1.410E-02 0.9071 4.410E-04 33.908 1.246E-04 1 100 3.582 1.400E-02 4.000E-04 1.410E-02 0.9071 1.587E-02 33.908 1.477E-04 1 100 17.66B 7.350E-02 2.00E-04 6.330E-02 0.9071 1.576E-02 33.908 1.776E-04 1 100 17.66B 7.350E-02 2.00E-04 7.310E-02 0.9071 2.778E-02 33.908 1.706E-04 1	1-Hexene	84	0.114	4.000E-04	Q	4.000E-04	0.9071	4.410E-04	33,908	9.335E-07	1	9.335E-07
84 0.200 7,000E-04 ND 7,000E-04 0.9071 7,77F-04 33,908 1,634E-06 1 84 0.114 4,000E-04 ND 4,000E-04 0.9071 4,410E-04 33,908 9,335E-07 1 84 0.114 4,000E-04 ND 4,000E-04 0.9071 4,410E-04 33,908 1,246E-07 1 100 3.582 1,490E-02 4,000E-04 5,340E-02 0.9071 1,554E-02 33,908 1,246E-04 1 78 37.999 1,233E-01 1,100E-03 1,222E-01 0.9071 1,554E-02 33,908 1,246E-04 1 84 18,172 6,350E-02 2,000E-04 7,310E-02 0.9071 6,97E-02 33,908 1,77E-04 1 100 6,442 2,550E-02 4,000E-04 7,310E-02 0.9071 2,77E-02 33,908 1,77E-04 1 100 10,442 2,550E-02 4,000E-04 2,520E-02 0.9071 2,77E-02 33,908 <	n-Hexane	98	40.195	1.438E-01	8.000E-04	1.430E-01	0.9071	1.576E-01	33,908	3.337E-04	-	3.337E-04
84 0.114 4.000E-04 ND 4.000E-04 0.9971 4.410E-04 33,908 9.335E-07 1 84 0.114 4.000E-04 ND 4.000E-04 0.9071 4.410E-04 33,908 9.335E-07 1 84 15.386 5.380E-02 4.000E-04 5.300E-02 0.9071 4.410E-04 33,908 1.246E-04 1 100 3.582 1.490E-02 8.000E-04 1.410E-02 0.9071 1.554E-02 33,908 2.286E-04 1 78 37.999 1.233E-01 1.100E-03 1.222E-01 0.9071 1.347E-01 33,908 2.862E-04 1 100 6.350E-02 2.000E-04 7.310E-02 0.9071 8.03E-02 33,908 1.747E-04 1 100 6.442 2.680E-02 4.000E-04 7.310E-02 0.9071 2.747E-02 33,908 1.76E-04 1 100 19.832 8.250E-02 4.000E-04 2.20E-02 0.9071 2.447E-02 33,908 1.916E-04	trans-2-Hexene	84	0.200	7.000E-04	9	7.000E-04	0.9071	7.717E-04	33,908	1.634E-06	-	1.634E-06
84 10.114 4.000E-04 ND 4.000E-04 0.9071 4.410E-04 33,908 9,335E-07 1 84 15.396 5.380E-02 4.000E-04 5.340E-02 0.9071 5.887E-02 33,908 1.246E-04 1 10 3.582 1.490E-02 8.000E-04 1.410E-02 0.9071 1.54E-02 33,908 1.226E-04 1 10 3.582E-02 1.202E-01 0.9071 1.347E-01 33,908 2.862E-04 1 10 1.683E-02 2.000E-04 6.330E-02 0.9071 6.37E-02 33,908 1.477E-04 1 10 6.442 2.680E-02 4.000E-04 7.310E-02 0.9071 8.059E-02 33,908 1.477E-04 1 10 6.442 2.680E-02 4.000E-03 2.520E-02 0.9071 2.778E-02 33,908 5.881E-05 1 10 16.842 2.520E-02 0.9071 2.47E-02 33,908 5.181E-05 1 114 5.314 2	Z-Methyl-2-pentene	88	0.114	4.000E-04	9	4.000E-04	0.9071	4.410E-04	33,908	9.335E-07	-	9.335E-07
84 15.396 5.306-02 4.000E-04 5.340E-02 0.9071 5.887E-02 33.90B 1.246E-04 1 100 3.582 1.490E-02 8.000E-04 1.437E-01 0.9071 1.587E-02 33.90B 3.290E-05 1 76 37.999 1.233E-01 1.100E-03 1.222E-01 0.9071 1.57E-02 33.90B 1.477E-04 1 100 17.66B 7.350E-02 2.000E-04 7.310E-02 0.9071 8.05E-02 33.90B 1.706E-04 1 100 17.66B 7.350E-02 1.600E-03 2.520E-02 0.9071 2.77E-02 33.90B 1.706E-04 1 100 18332 8.250E-02 1.600E-03 2.520E-02 0.9071 2.77E-02 33.90B 5.181E-05 1 114 5.314 2.520E-02 3.000E-03 2.220E-02 0.9071 2.447E-02 33.90B 5.181E-05 1	cis-2-Hexene	84	0.114	4.000E-04	Q	4.000E-04	0.9071	4.410E-04	33,908	9.335E-07	-	9.335E-07
100 3.582 1.499E-02 8.000E-04 1.410E-02 0.9071 1.554E-02 33.908 3.290E-05 1 78 37.999 1.233E-01 1.100E-03 1.222E-01 0.9071 1.347E-01 33.908 2.852E-04 1 84 18.172 6.350E-02 2.000E-04 7.300E-02 0.9071 6.978E-02 33.908 1.776E-04 1 100 17.668 7.350E-02 1.000E-04 7.300E-02 0.9071 2.73E-02 33.908 1.706E-04 1 100 6.442 2.680E-02 4.000E-04 8.210E-02 0.9071 2.747E-02 33.908 1.916E-04 1 100 19.832 8.250E-02 3.000E-03 2.220E-02 0.9071 2.447E-02 33.908 5.181E-05 1 114 5.314 2.520E-02 3.000E-03 0.9071 2.447E-02 33.908 5.181E-05 1	Methylcyclopentane	8	15.396	5.380E-02	4.000E-04	5.340E-02	0.9071	5.887E-02	33,908	1.246E-04	-	1.246E-04
78 37.999 1.233E-01 1.100E-03 1.222E-01 0.9071 1.347E-01 33,908 2.682E-04 1 84 18.172 6.350E-02 2.000E-04 6.330E-02 0.9071 6.378E-02 33,908 1.477E-04 1 100 17.668 7.350E-02 4.000E-04 7.310E-02 0.9071 8.059E-02 33,908 1.706E-04 1 100 6.442 2.680E-02 4.000E-03 2.520E-02 0.9071 2.476E-02 33,908 1.916E-04 1 100 19.832 8.250E-02 3.000E-02 0.9071 2.447E-02 33,908 5.181E-05 1 114 5.314 2.520E-02 3.000F-03 2.220E-02 0.9071 2.447E-02 33,908 5.181E-05 1	2,4-Dimethylpentane	8	3.582	1.490E-02	8.000E-04	1.410E-02	0.9071	1.554E-02	33,908	3.290E-05	-	3.290E-05
84 16.172 6.356E-02 2.000E-04 6.330E-02 0.9071 6.976E-02 33.908 1.477E-04 1 100 17.688 7.350E-02 4.000E-03 2.530E-02 0.9071 8.059E-02 33,908 1.706E-04 1 100 6.442 2.550E-02 1.600E-03 2.500E-02 0.9071 2.716E-02 33,908 5.881E-05 1 100 19.832 8.250E-02 3.000E-03 2.220E-02 0.9071 2.447E-02 33,908 5.181E-05 1 114 5.314 2.520E-02 3.000E-03 2.220E-02 0.9071 2.447E-02 33,908 5.181E-05 1	Benzene	78	37.999	1.233E-01	1.100E-03	1.222E-01	0.9071	1.347E-01	33,908	2.852E-04	-	2.852E-04
100 17.668 7.350E-02 4.000E-04 7.310E-02 0.9071 8.056E-02 33.908 1.706E-04 1 100 6.442 2.680E-02 1.600E-03 2.520E-02 0.9071 2.778E-02 33.908 5.818E-05 1 100 19.832 8.250E-02 4.000E-04 8.210E-02 0.9071 9.051E-02 33.908 1.316E-04 1 114 5.314 2.520E-02 3.000E-03 2.220E-02 0.9071 2.447E-02 33.908 5.181E-05 1	Cyclohexane	84	18.172	6.350E-02	2.000E-04	6.330E-02	0.9071	6.978E-02	33,908	1.477E-04	-	1.477E-04
100 6.442 2.680E-02 1.600E-03 2.520E-02 0.9071 2.778E-02 33,908 5.881E-05 1 100 19.832 8.250E-02 4.000E-04 8.210E-02 0.9071 9.051E-02 33,908 1.316E-04 1 114 5.314 2.520E-02 3.000E-03 2.220E-02 0.9071 2.447E-02 33,908 5.181E-05 1	2-Methylhexane	<u>5</u>	17.668	7.350E-02	4.000E-04	7.310E-02	0.9071	8.059E-02	33,908	1.706E-04	-	1.706E-04
100 19.832 8.250E-02 4.000E-04 8.210E-02 0.9071 9.051E-02 33,908 1.316E-04 1 1 114 5.314 2.520E-02 3.000E-03 2.220E-02 0.9071 2.447E-02 33,908 5.181E-05 1	2,3-Dimethylpentane	5 8	6.442	2.680E-02	1.600E-03	2.520E-02	0.9071	2.778E-02	33,908	5.881E-05	-	5.881E-05
114 5.314 2.520E-02 3.000E-03 2.220E-02 0.9071 2.447E-02 33,908 5.181E-05 1	3-Methylhexane	8	19.832		4.000E-04	8.210E-02	0.9071	9.051E-02	33,908	1.916E-04	-	1.916E-04
	2,2,4-Trimethylpentane	114	5.314	2.520E-02	3.000E-03	2.220E-02	0.9071	2.447E-02	33,908	5.181E-05	-	5.181E-05

TABLE A-8. AEC - VOC RUN NO. 1 DATA FOR SIMULATOR FLASH ARITLLERY TEST (28 MARCH 1998)

Molecular Weight		Average Concentration - Bun 1. onby	Average Concentration - Run 1. mo/m³	Background - Concentration, ma/m³	Background Corrected Concentration -	Dilution Correction Factor (b).%	Corrected Concentration - Run 1. mo/m³	Initial Plume Volume, ft ³	Sample Total Material - Run 1. Ih	Number of	Corrected Emission Factor - Run 1. It/frem
25.697	Ł	1.0	1.069E-01	4.000E-04	1.065E-01	0.9071	1.174E-01	33,908	2.485E-04	-	2.485E-04
QN OO		N.		ON	ON PO LOGG F	0.9071	ON Local	33,908	ON		QN L
1	1	ON ND	7	ND ND	ND-BOE-UI	0.9071	ND-BR-01	33,908	Z.558E-04	- -	2.558E-04
2.088		9.900	E-03	2.000E-04	9.700E-03	0.9071	1.069E-02	33,908	2.264E-05	-	2.264E-05
2.678		1.270	E-02	3.000E-04	1.240E-02	0.9071	1.367E-02	33,908	2.894E-05	-	2.894E-05
		4.000	E-03	6.000E-04	3.400E-03	0.9071	3.748E-03	33,908	7.934E-06		7.934E-06
92 65.426 2.504	+	2.504	5 5	2.200E-03	2.482E-U1	0.9071	2.736E-01	33,908	5.792E-04		5.792E-04
7.233	$\frac{1}{1}$	3.340	200	3.000E-04	3.330F-02	0.9071	3 6715-02	33,908	1.424E-05	-	7.771E-05
114 ND ND	-	Z		QN	QN	0.9071	QN	33,908	QN	-	QN
		QN		QN	QN	0.9071	QN	33,908	QN	-	Q
0.376		2.000	-03	1.000E-04	1.900E-03	0.9071	2.095E-03	33,908	4.434E-06	1	4.434E-06
8.097		3.840E	8	1.000E-04	3.830E-02	0.9071	4.222E-02	33,908	8.938E-05	1	8.938E-05
112 ND ND 1112	$\frac{1}{1}$	N V	5	ON COOK	ND 7 420E 03	0.9071	ND 490F 93	33,908	ON C	- -	ON C
47.329	+	2.087	9 6	1.100E-03	2.076F-01	0.9071	2.180E-02	33 908	4 845F-04	-	4 R45F-04
0.485	\mid	2.100	63	1.000E-04	2.000E-03	0.9071	2.205E-03	33 908	4.667E-06	-	4.667E-06
29.164		1.286E	0.	4.000E-04	1.282E-01	0.9071	1.413E-01	33,908	2.992E-04	-	2.992E-04
1.634		8.700E	-03	QN	8.700E-03	0.9071	9.591E-03	33,908	2.030E-05	-	2.030E-05
120 0.521 2.600E		2.600E	-03	QN	2.600E-03	0.9071	2.866E-03	33,908	6.067E-06	1	6.067E-06
3.365		1.680E	-02	2.000E-04	1.660E-02	0.9071	1.830E-02	33,908	3.874E-05	1	3.874E-05
13.622		6.800	52	3.000E-04	6.770E-02	0.9071	7.463E-02	33,908	1.580E-04	-	1.580E-04
120 6.210 3.100E-02	1	3.1	E-02	1.000E-04	3.090E-02	0.9071	3.406E-02	33,908	7.211E-05	-	7.211E-05
6.5/4	+	4.28	0E-02	1.000E-04	4.270E-02	0.9071	4.707E-02	33,908	9.965E-05		9.965E-05
4.028 2.010E-02		2.010	E-02	1.000:-04	2.000E-02	1,06.0	2.205E-02	33,908	4.667E-05	-	4.667E-05
21.354		1.066	-01	4.000E-04	1.062E-01	0.9071	1.171E-01	33,908	2.478E-04	_	2.478E-04
0.406		2.40	2.400E-03	2	2.400E-03	0.9071	2.646E-03	33,908	5.601E-06	-	5.601E-06
1	1		2 2	2 2	2 2	0.9071	2 2	33,908	2 2	-	2 2
QV			2	2	QN	0.9071	9	33.908	GN	-	e S
QN		z	٥	QV	QN	0.9071	QN	33,908	QN	-	Q
e .		1.351	E-01	7.000E-04	1.344E-01	0.9071	1.482E-01	33,908	3.136E-04	1	3.136E-04
Z	Z	Ž		Q.	ON	0.9071	QN	33,908	QN	-	Q
0.629 3.1	3.1	3.141	E.33	1.773E-03	1.368E-03	0.9071	1.508E-03	33,908	3.193E-06	-	3.193E-06
2		Ž		2	Q.	0.9071	Q.	33,908	2	-	2
2		2		QV.	QV.	0.9071	Q.	33,908	Q	-	9
UN C	1	ON C	1	2	ON	0.9071	ON C	33,908	QN	-	2
9.056		2.034E	2	ON.	2.034E-02	0.9071	2.243E-02	33,908	4.747E-05	-	4.747E-05
ON ON S6		2		Q	QN	0.9071	Q	33,908	Q	1	Q
QN		Z		QV	QV	0.9071	Q	33,908	QN	1	ND
137 0.410 2.33		2.33	2.335E-03	2.554E-03	-2.196E-04	0.9071	QN	33,908	Q	-	QN
QN			Q	QN	QN	0.9071	QN	33,908	QN	1	QN
3.358		-	1.187E-02	3.173E-04	1.155E-02	0.9071	1.274E-02	33,908	2.697E-05	1	2.697E-05
QN			QN	ON	ND	0.9071	ND ON	33,908	QN	1	ON
9		9	6.732E-04	8.593E-04	-1.861E-04	0.9071	QN	33,908	QN	-	ON
1			2 2	2	S S	0.9071	2	33,908	Q	-	Q S
ON CALL	2 2			2	2	0.9071	2	33,908	Q	-	Q
ON I		2		3	S	0.9071	Ž.	33,908	Z.		S

TABLE A-8. AEC - VOC RUN NO. 1 DATA FOR SIMULATOR FLASH ARITLLERY TEST (28 MARCH 1998)

	Molecular	Average Concentration -	Average Concentration.	Background - Concentration,	Background Corrected Concentration -	Dilution Correction	Corrected Concentration -	Initial Plume	Sample Total Material - Run	Number of	Corrected Emission Factor - Run
Compound (a)	Weight	Run 1, ppbv	Run 1, mg/m²	_mg/m_	Run 1, mg/m²	Factor (b), %	Run 1, mg/m²	Volume, ft	1, ե	Items	1, lb/item
1,2-Dichloroethane	66	Q	Q	Q	Q	0.9071	Q	33,908	QN	1	Q
Methylchloroform	133	QN	QN	3.795E-04	2	0.9071	Q	33,908	Q		2
Benzene	8/	386.498	1.254E+00	1.119E-03	1.253E+00	0.9071	1.381E+00	33,908	2.924E-03		2.924E-03
carbontetrachioride	40.5	9/0.0	4.898E-04	8.1535-04	-3.255E-04	0.9071	2	33,908	2 2		2
1,z-Uichioropropane	113	2	Q !	2	Q.	0.9071	2	33,908	2	-	2
i nchloroethylene	133	Q	2	2	Q	0.9071	Q	33,908	9	-	Q
cis 1,3-Dichloro-1-propene	111	Q	2	Q	Q	0.9071	Q	33,908	Q	-	Q
trans 1,3-Dichloro-1-propene	111	Q	ON	Q	Q	0.9071	ON	33,908	QN	1	QN
1,1,2-Trichloroethane	133	Q	QN	Q	Q	0.9071	QN	33,908	QN	1	Q
Toluene	95	665.465	2.547E+00	2.238E-03	2.545E+00	0.9071	2.805E+00	33,908	5.938E-03	1	5.938E-03
1,2-Dibromoethane	188	Q	Q	ON	QN	0.9071	QN	33,908	QN	1	QN
Perchloroethylene	166	2.060	4.875E-02		4.875E-02	0.9071	5.375E-02	33,908	1.138E-04	1	1.138E-04
Chlorobenzene	113	QN	Q		QN	0.9071	2	33,908	QV	-	9
Ethylbenzene	160	171.842	1.144E+00	4.606E-04	1.143E+00	0.9071	1.260E+00	33,908	2.668E-03	+	2.668E-03
m&p-Xylene	106	481.334	2.122E+00		2.122E+00	0.9071	2.339E+00	33,908	4.951E-03	-	4.951E-03
Styrene	104	Q	Q		Q	0.9071	9	33,908	QN	-	Q
1,1,2,2-Tetrachloroethane	168	2	Q	Q	9	0.9071	Q	33,908	QV	-	Q
o-Xylene	106	296.629	1.308E+00	4.068E-04	1.308E+00	0.9071	1.442E+00	33,908	3.051E-03	-	3.051E-03
p-Ethyltoluene	120	92.273	4.606E-01	Q	4.606E-01	0.9071	5.078E-01	33,908	1.075E-03	_	1.075E-03
1,3,5-Trimethylbenzene	120	88.816	4.434E-01	Q	4.434E-01	0.9071	4.888E-01	33,908	1.035E-03	-	1.035E-03
1,2,4-Trimethylbenzene	120	171.076	8.540E-01	3.690E-04	8.536E-01	0.9071	9.411E-01	33,908	1.992E-03	-	1.992E-03
Benzylchloride	127	QN	QN	ON	QN	0.9071	QN	33,908	2	-	9
m-Dichlorobenzene	147	ON	QN	QN	QN	0.9071	QN	33,908	QN	1	9
p-Dichlorobenzene	147	QN	QN	QN	QN	0.9071	QN	33,908	QN	-	QV
o-Dichlorobenzene	147	QN	QN	QN	QN	0.9071	QN	33,908	QN	1	QN
1,2,4-Trichlorobenzene	181	Q	Q	QN	QN	0.9071	QN	33,908	QN	1	QN
Hexachlorobutadiene	261	9	Q	QN	QN	0.9071	ON	33,908	QN	1	ND
Phenylacetylene	102	Q	QN	ON	QN	0.9071	QN	33,908	QN	1	QN
Indane	118	38.608	1.895E-01	Q	1.895E-01	0.9071	2.089E-01	33,908	4.423E-04	1	4.423E-04
2,3-Dihydro-1-methyl-1H-indene	132	10.064	5.526E-02	9	5.526E-02	0.9071	6.092E-02	33,908	1.290E-04	-	1.290E-04
2,3-Dihydro-4-methyl-1H-indene	132	12.908	7.088E-02	Q	7.088E-02	0.9071	7.814E-02	33,908	1.654E-04	-	1.654E-04
Naphthalene	128	17.218	9.168E-02	Q	9.168E-02	0.9071	1.011E-01	33,908	2.140E-04	-	2.140E-04
Z-Metnyinaphthalene	142	1.572	9.285E-03	2	9.285E-03	0.9071	1.024E-02	33,908	2.167E-05	-	2.167E-05
I-Melitylitabilitalerie	142	2 2	25	2	2 2	0.9071	2	33,908	2		2
Methylninia	92	12 133	3 0795-02	2 2	3 070E 00	0.9071	ND 3 304E-03	33,908	ND 7 495E OE	- -	ND 7 105 C
Acetonitale	41	S C	NO SE-OS	2 2	3.07.3E-02	0.907	3.334E-02	90,500	/ . 103E-U3	-	/ 100E-U3
Acrylonitrile	53	QN C	252	2 5	2 2	0.9071	2 5	33 908	2 2	-	2 2
Nitromethane	19	2 148	5.450F-03	8 363E-04	4 614E-03	0.3071	5 086E.03	33 908	1 0775.05	-	1 0775 05
Propanenitrile	55	2	QN	ON	CN	0.9071	S IN	33 908	GU	-	NO.
2-Methylpropanenitrile	69	9	S	9	QN	0.9071	QN	33.908	Q	-	Ş
Pentanenitrile	83	Q	QN	2	QN	0.9071	2	33.908	2	-	Q
Hexanenitrile	- 6	Q	QN	S	QN	0.9071	9	33,908	2	-	Q
Benzonitrile	103	Q	QV	S	S	0.9071	QV	33,908	Q	-	S
2-Nitrophenol	139	Q	QN	QN	Q	0.9071	Q	33.908	Q	-	2
Acrolein	56	3.308	7.706E-03	Q	7.706E-03	0.9071	8.495E-03	33,908	1.798E-05	-	1.798E-05
Acetone	56	QN	QN	3.761E-03	QN	0.9071	ND	33,908	QN	1	Q
1-Hydroxy-2-propanone	74	2	QN	QN	QN	0.9071	ON	33,908	QN	1	QN
Furan	88	9	Q	Q	ON	0.9071	ND	33,908	QN	1	Q
Z-Propanol	09	2	Q	Q	Q	0.9071	Q	33,908	Ð	-	Š

TABLE A-8. AEC - VOC RUN NO. 1 DATA FOR SIMULATOR FLASH ARITLLERY TEST (28 MARCH 1998)

					Background						Corrected
		Average	Average	Background -	Corrected	Difution	Corrected		Sample Total	. *	Emission
	Molecular	Concentration -	Concentration -	Concentration,	Concentration -	Correction	Concentration -	Initial Plume	Material - Run	Number of	Factor - Run
Compound (a)	Weight	Run 1, ppbv	Run 1, mg/m"	mg/m	Run 1, mg/m*	Factor (b), %	Hun 1, mg/m*	Volume, fr	1, lb	Items	1, Ib/item
2-Methylpropanal	74	QN	QN	QN	QN	0.9071	QN	33,908	Q	-	QN
1-Propanol	9	QN	QN	QV	Q	0.9071	QN	33,908	Q	1	ND
Methacrolein	20	Q	S	Q	Q	0.9071	QN	33,908	QN	-	QN
Methyl-vinyl Ketone	20	Q	QN	Q	QN	0.9071	QŅ	33,908	g	-	QN
MTBE	88	375.330	1.374E+00	6.867E-04	1.373E+00	0.9071	1.514E+00	33,908	3.205E-03	-	3.205E-03
2,3-Butanedione	98	QV	Q	Q	QN	0.9071	QN	33,908	Q	-	QN
Butanal	72	QV	QV	2.764E-04	QN	0.9071	Ņ	33,908	QN	1	QN
2-Butanone	72	4.063	1.217E-02	7.666E-04	1.140E-02	0.9071	1.257E-02	33,908	2.661E-05	1	2.661E-05
2-Methyl-1,3-dioxolane	88	Q	QV	Q	Q.	0.9071	QV	33,908	g	-	2
2-Methylfuran	82	QV	Q	Q	Q	0.9071	Q	33,908	Q	-	Q
Tetrahydrofuran	72	Q	Q	2	Q	0.9071	Q	33,908	9	-	Q
trans-2-Butenal	92	Q	Q	Q	QN	0.9071	QN	33,908	Q	-	Q
Acetic Acid	09	10.372	2.589E-02	1.057E-03	2.483E-02	0.9071	2.738E-02	33,908	5.795E-05	-	5.795E-05
1-Butanol	74	QV	Q.	Q	Q	0.9071	Q	33,908	QN	-	QN
2-Pentanone	98	2	QV	Q	Q	0.9071	Q	33,908	Q	-	Q
Pentanal	98	QN	QV	1.240E-03	Q	0.9071	Q	33,908	Q	-	Q
1,4-Dioxane	88	QN	QN	QN	ON	0.9071	ND	33,908	QN	1	QN
Methyl Methacrylate	100	QN	QN	QN	QN	0.9071	QN	33,908	QN	1	QV
Cyclopentanone	84	QN	QN	QN	QN	0.9071	ND	33,908	ND	-	QN
Hexanal	100	QN	QN	9.786E-04	QN	0.9071	ND	33,908	QN	1	QN
2-Furaldehyde	96	ON	QN	QN	QN	0.9071	QN	33,908	QN	1	QN
Cyclohexanone	86	QN	QN	ON	QN	0.9071	ND	33,908	ND	1	QV
Heptanal	114	1.611	7.642E-03	9.400E-04	6.702E-03	0.9071	7.389E-03	33,908	1.564E-05	1	1.564E-05
2-Butoxyethanol	118	ON	QN	QN	QN	0.9071	ND	33,908	QN	1	QN
Benzaldehyde	106	9.252	4.080E-02	1.535E-03	3.926E-02	0.9071	4.328E-02	33,908	9.162E-05	-	9.162E-05
6-Methyl-5-hepten-2-one	126	QN	ON	6.854E-04	ON	0.9071	ND	33,908	ON	1	Q
Octanal	128	3.860	2.056E-02	2.034E-03	1.852E-02	0.9071	2.042E-02	33,908	4.323E-05	1	4.323E-05
Benzofuran	118	QN	QN	QN	QN	0.9071	QN	33,908	QN	-	Q
2-Ethyl-1-hexanol	120	QN	QN	QN	QN	0.9071	NO	33,908	ON	1	QN
Acetophonone	120	QN	QN	QN	QN	0.9071	ND	33,908	QN	1	QN
Nonanal	142	5.043	2.979E-02	3.225E-03	2.656E-02	0.9071	2.928E-02	33,908	6.199E-05	-	6.199E-05
Decanal	156	4.321	2.804E-02	1.629E-03	2.641E-02	0.9071	2.912E-02	33,908	6.164E-05	-	6.164E-05
Carbonyl Sulfide	9	0.957	2.387E-03	2.742E-04	2.113E-03	0.9071	2.330E-03	33,908	4.931E-06	1	4.931E-06
Carbon Disulfide	92	1.638	5.180E-03	5.880E-04	4.592E-03	0.9071	5.062E-03	33,908	1.072E-05	+	1.072E-05
Thiophene	84	Q	Q	Q	Q	0.9071	QN	33,908	9	-	S
Dimethyldisulfide	94	QN	QN	ON	ON	0.9071	ND	33,908	QN	-	Q

a Compounds in bold represent duplicate values. b Estimated from tracer data as presented in Volume IV.

TABLE A-9. AEC - VOC RUN NO. 2 DATA FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1998)

Compound (a)	Molecular Weight	Average Concentration - Run 2, ppbv	Average Concentration - Run 2, mg/m²	Background - Concentration, mg/m²	Background Corrected Concentration - Run 2, mg/m²	Dilution Correction Factor (b),%	Corrected Concentration -	Initial Plume Volume, tt³	Sample Total Material - Run 2, lb	Number of Items	Corrected Emission Factor - Run 2, Ib/Item
Total Nonmethane Hydrocarbons (TNMHC)											
TNMHC		,	1.515E+00	3.120E-01	1.203E+00	0.929	1.295E+00	34,499	2.790E-03	1	2.790E-03
Volatile Organic Compounds (VOCs)											
Ethane	30	1.202	1.500E-03	2.300E-03	-8.000E-04	0.929	QN	34,499	Q	-	QN
Ethylene	28	16.054	1.870E-02	2.000E-04	1.850E-02	0.929	1.991E-02	34,499	4.289E-05	-	4.289E-05
Acetylene	26	7.027	7.600E-03	7.000E-04	6.900E-03	0.929	7.427E-03	34,499	1.600E-05	1	1.600E-05
Propane	44	0.546	1.000E-03	1.000E-03	0.000E+00	0.929	0.000E+00	34,499	0.000E+00	-	0.000E+00
Propene	42	5.151	9.000E-03	1.000E-04	8.900E-03	0.929	9.580E-03	34,499	2.063E-05	•	2.063E-05
I-Butane	288	1.160	2.800E-03	2.000E-04	2.600E-03	0.929	2.799E-03	34,499	6.028E-06	-	6.028E-06
1-Butene	95	681.7	5.100E-03	1.000E-04	5.000E-03	0.929	5.38ZE-03	34,499	1.159E-05		1.159E-05
1,3-Butadiene	54	0.757	1.700E-03	ND ON	1.700E-03	0.929	1.830E-03	34,499	3.941E-06	-	3 941E-06
n-Butane	58	4.476	1.080E-02	5.000E-04	1.030E-02	0.929	1.109E-02	34,499	2.388E-05	-	2.388E-05
trans-2-Butene	56	0.644	1.500E-03	QN	1.500E-03	0.929	1.615E-03	34,499	3.477E-06	-	3.477E-06
2,2-Dimethylpropane	72	QN	QN	QN	QN	0.929	ND	34,499	QN	-	2
cis-2-Butene	56	0.215	5.000E-04	ON	5.000E-04	0.929	5.382E-04	34,499	1.159E-06	-	1.159E-06
3-Methyl-1-butene	02	0.137	4.000E-04	ON	4.000E-04	0.929	4.306E-04	34,499	9.273E-07	-	9.273E-07
-Penane 1 Pentene	2/5	13.588	4.070E-02	1.500E-03	3.920E-02	0.929	4.220E-02	34,499	9.088E-05	-	9.088E-05
2.Mathd-1-hitana	0/2	0.2/3	8.000E-04	2 2	8.000E-04	0.929	8.611E-04	34,499	1.855E-06		1.855E-06
n-Pentane	22	13 655	9.000E-04	ND 4 700E 03	9.000E-04	0.929	9.588E-04	34,499	2.086E-06		2.086E-06
Isoprene	89	0.035	1.000E-04	ND ND	1.000E-04	0.929	1.076F-04	34,499	9.088E-05		9.088E-05
trans-2-Pentene	70	0.206	6.000E-04	QN	6.000E-04	0.929	6.459E-04	34,499	1.391E-06	-	1.391E-06
cis-2-Pentene	20	0.103	3.000E-04	Q	3.000E-04	0.929	3.229E-04	34,499	6.955E-07	-	6.955E-07
2-Methyl-2-butene	20	0.172	5.000E-04	Q	5.000E-04	0.929	5.382E-04	34,499	1.159E-06	-	1.159E-06
Z,z-Umetnyibutane	98	1.006	3.600E-03	2.000E-04	3.400E-03	0.929	3.660E-03	34,499	7.882E-06	-	7.882E-06
Cyclopemene 4-Mothyl 1 postono	8 8	0.106	3.000E-04	Q S	3.000E-04	0.929	3.229E-04	34,499	6.955E-07	-	6.955E-07
Cyclopentane	, O	1.168	3 4005-03	ND 2 000E-04	2.000E-04	0.929	2.153E-04	34,499	7.410E.06		4.637E-07
2,3-Dimethylbutane	98	2.292	8.200E-03	5.000E-04	7.700E-03	0.929	8.288E-03	34.499	1.785E-05		1 785F-05
cis-4-Methyl-2-pentene	84	QN	QN	QN	QN	0.929	Q	34,499	Q		2
2-Methylpentane	86	12.075	4.320E-02	2.500E-03	4.070E-02	0.929	4.381E-02	34,499	9.436E-05	-	9.436E-05
3-Methylpentane	98	8.441	3.020E-02	2.100E-03	2.810E-02	0.929	3.025E-02	34,499	6.514E-05	-	6.514E-05
Z-iwemyr- I-pentene	84	2 2	2 2	2	2	0.929	2	34,499	9	-	2
n-Hexane	5 8	15,821	R RENE NO	CN HOUSE	ND HOLD OF	0.929	ND POPULATION OF THE POPULATIO	34,499		-	
trans-2-Hexene	84	0.114	4.000E-04	ND ND	4 000F-04	0.929	3.019E-02	34,499	0.273E-04	- -	0.2735.07
2-Methyl-2-pentene	84	0.143	5.000E-04	Q	5.000E-04	0.929	5.382E-04	34.499	1.159E-06	-	1.159E-06
cis-2-Hexene	84	0.057	2.000E-04	Q	2.000E-04	0.929	2.153E-04	34,499	4.637E-07	-	4.637E-07
Methylcyclopentane	84	5.580	1.950E-02	1.900E-03	1.760E-02	0.929	1.895E-02	34,499	4.080E-05	-	4.080E-05
2,4-Dimethylpentane	100	1.346	5.600E-03	7.000E-04	4.900E-03	0.929	5.274E-03	34,499	1.136E-05	_	1.136E-05
Benzene	78	15.841	5.140E-02	5.100E-03	4.630E-02	0.929	4.984E-02	34,499	1.073E-04	1	1.073E-04
Cyclohexane	84	6.868	2.400E-02	2.200E-03	2.180E-02	0.929	2.347E-02	34,499	5.054E-05	-	5.054E-05
2-Metnyinexane	3 5	1.957	3.310E-02	3.100E-03	3.000E-02	0.929	3.229E-02	34,499	6.955E-05	-	6.955E-05
3-Mathylbaxana	3 5	8 005	7.300E-03	1.300E-03	5.800E-03	0.929	6.243E-03	34,499	1.345E-05		1.345E-05
	3	200.0	3.330E-02	3.300E-03	Z.300E-0Z	0.929	3.2085-02	64,488	6.909E-05		6.909E-05
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TABLE A-9. AEC - VOC RUN NO. 2 DATA FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1998)

			Average	Background	Background	1	Corrected				Corrected
Compound	Molecular	Average Concentration - Run 2 noby	Concentration -	Concentration,	Concentration -	Correction Factor (b). %	Concentration -	Initial Plume Volume, ft ³	Material - Run 2. ib	Number of	Factor - Run 2. Ib/item
2.2.4-Trimethylpentane	114	1.560	7.400E-03	1.300E-03	6.100E-03	0.929	6.566E-03	34.499	1.414E-05		1.414E-05
n-Heptane	100	10.721	4.460E-02	4.900E-03	3.970E-02	0.929	4.273E-02	34,499	9.204E-05	-	9.204E-05
2,4,4-Trimethyl-1-pentene	112	QN	DN	DN	ND	0.929	ND	34,499	QN	-	Q
Methylcyclohexane	86	10.891	4.440E-02	4.700E-03	3.970E-02	0.929	4.273E-02	34,499	9.204E-05	-	9.204E-05
2,4,4-Trimethyl-2-pentene	112	QN	ND	ON	ND	0.929	ND	34,499	QN	1	QN
2,5-Dimethylhexane	114	1.244	5.900E-03	7.000E-04	5.200E-03	0.929	5.597E-03	34,499	1.206E-05	1	1.206E-05
2,4-Dimethylhexane	114	1.160	5.500E-03	6.000E-04	4.900E-03	0.929	5.274E-03	34,499	1.136E-05	1	1.136E-05
2,3,4-Trimethylpentane	114	0.401	1.900E-03	4.000E-04	1.500E-03	0.929	1.615E-03	34,499	3.477E-06	1	3.477E-06
Toluene	36	50.847	1.946E-01	3.560E-02	1.590E-01	0.929	1.712E-01	34,499	3.686E-04	F	3.686E-04
2,3-Dimethylhexane	114	0.612	2.900E-03	4.000E-04	2.500E-03	0.929	2.691E-03	34,499	5.796E-06	-	5.796E-06
2-Methylheptane	111	3.313	1.530E-02	1.400E-03	1.390E-02	0.929	1.496E-02	34,499	3.222E-05	-	3.222E-05
3-Ethylhexane	114	QN	QV	S	Q	0.929	Q	34,499	Q	-	Q
2,2-Dimethylheptane	128	QN	Q	QN	QN	0.929	QN	34,499	QV	-	Q
2,2,4-Trimethythexane	128	0.413	2.200E-03	1.000E-03	1.200E-03	0.929	1.292E-03	34,499	2.782E-06	-	2.782E-06
n-Octane	114	3.690	1.750E-02	2.100E-03	1.540E-02	0.929	1.658E-02	34,499	3.570E-05	1	3.570E-05
Ethylcyctohexane	112	QN	QN	QN	QN	0.929	ND	34,499	QN	1	QN
Ethylbenzene	160	5.694	3.790E-02	7.800E-03	3.010E-02	0.929	3.240E-02	34,499	6.978E-05	[• i	6.978E-05
m-Xylene & p-Xylene	106	24.129	1.064E-01	3.210E-02	7.430E-02	0.929	7.998E-02	34,499	1.723E-04	1	1.723E-04
Styrene	104	0.300	1.300E-03	3.000E-04	1.000E-03	0.929	1.076E-03	34,499	2.318E-06	1	2.318E-06
o-Xylene	106	15.625	6.890E-02	1.780E-02	5.110E-02	0.929	5.501E-02	34,499	1.185E-04	1	1.185E-04
n-Nonane	128	0.883	4.700E-03	1.000E-03	3.700E-03	0.929	3.983E-03	34,499	8.578E-06	1	8.578E-06
i-Propylbenzene	120	0.280	1.400E-03	QN	1.400E-03	0.929	1.507E-03	34,499	3.246E-06	1	3.246E-06
n-Propylbenzene	120	1.883	9.400E-03	3.200E-03	6.200E-03	0.929	6.674E-03	34,499	1.437E-05	t	1.437E-05
p-Ethyltoluene	120	7.752	3.870E-02	1.480E-02	2.390E-02	0.929	2.573E-02	34,499	5.541E-05	-	5.541E-05
m-Ethyltoluene	120	3.546	1.770E-02	6.900E-03	1.080E-02	0.929	1.163E-02	34,499	2.504E-05	-	2.504E-05
1,3,5-Trimethylbenzene	120	5.068	2.530E-02	9.900E-03	1.540E-02	0.929	1.658E-02	34,499	3.570E-05	-	3.570E-05
o-Ethyltoluene	120	2.324	1.160E-02	4.800E-03	6.800E-03	0.929	7.320E-03	34,499	1.576E-05	-	1.576E-05
1.2.4.Trimethylbenzene & sec.Butylbenzene	120	12 620	6.300E-02	3 100E.02	3 200E-02	600	3 445E-02	34 409	7 4195-05	-	7.4195.05
n-Decane	142	0.237	1.400E-03	5.000E-04	9.000E-04	0.929	9.688E-04	34.499	2.086E-06		2.086F-06
alpha-Pinene	136	QN	QV	Q	QN	0.929	Q	34,499	2	-	Q
beta-Pinene	136	QN	QN	QV	QN	0.929	QN	34,499	Q	-	Q
delta 3-Carene	136	QN	QN	QN	QN	0.929	QN	34,499	Q	-	Q
d-Limonene	136	QN	QN	QN	QN	0.929	ND	34,499	QN	-	Q
MTBE	88	12.265	4.490E-02	3.600E-03	4.130E-02	0.929	4.446E-02	34,499	9.575E-05	1	9.575E-05
ETBE	102	2	QN	Q	QN	0.929	Q	34,499	S	-	Q
Uchlorodifluoromethane	120	0.332	1.657E-03	1.095E-03	5.622E-04	0.929	6.052E-04	34,499	1.303E-06		1.303E-06
Metnylchloride	3;	2 2	2 2	2	Q S	0.929	ON S	34,499	2		2
Oblorothoro	1 2		2 2	2 2	2 2	0.929		34,499	2 2		2 2
1 2 Birtadiana	3 2	769.7	1 720 00	2 2	1 7005 00	0.929	1 061E 00	24,499	ON TOOL		NO 1000 F
Mothydromido	5 4	(SO.)	1.723E-02	2 2	1.7295-02	0.929	1.0015-02	04,499	4.009E-03	-	4.0096-03
Ethychloride	54.5	2 2	2 2	2 2	2 2	0.929	2 2	34,499	2 2		2 2
Trichloromonofiloromethane	137	385	2 1035-03	2 4575-03	0 539E 04	0.929	2 2	34,499	2 2	-	2 2
Vinvidenechloride	76	QN	NO NO	ND CN	NO NO	0.929	2 5	34 499	2 2	<u> </u>	2 2
Methylenechloride	85	1.555	5.499E-03	1.638E-03	3.860E-03	0.929	4.155E-03	34,499	8.949E-06		8.949E-06
Allylchloride	76.5	QN	S	QN	QN	0.929	2	34,499	Q	-	Q
1,1,2-Trichloro-1,2,2-trifluoroethane	188	0.083	6.472E-04	7.990E-04	-1.518E-04	0.929	ND	34,499	QN	-	Q.
1,1-Dichloroethane	66	QN	QN	ON	QN	0.929	QN	34,499	QN	1	Q
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TABLE A-9. AEC - VOC RUN NO. 2 DATA FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1998)

Compound (a)	Molecular Weight	Average Concentration - Run 2, ppbv	Average Concentration - Run 2, mg/m³	Background - Concentration, mg/m²	Background Corrected Concentration - Run 2, mgm²	Dilution Correction Factor (b), %	Corrected Concentration - Run 2, mg/m ²	initial Plume Volume, ft²	Sample Total Material - Run 2, lb	Number of Items	Corrected Emission Factor - Run 2, lb/ftem
1,2-Dichloroethene	6	ND	QN	ON	QN	0.929	QN	34,499	QN	1	QN
Chloroform	119	ND	QN	ND	QN	0.929	Q	34,499	QN	-	Q
1,2-Dichloroethane	66	2	Q	Q	Q	0.929	Q	34,499	Q		2
Methylchloroform	133	0.058	3.192E-04	3.328E-04	-1.370E-05	0.929	Q	34,499	Q	-	Q
Benzene	78	161.119	5.228E-01	5.187E-03	5.176E-01	0.929	5.572E-01	34,499	1.200E-03		1.200E-03
Carbontetrachionde	154	0.096	6.180E-04	7.023E-04	-8.433E-05	0.929	2	34,499	2		2
1,2-Dichloropropane	113	2	2	2	Q	0.929	2	34,499	Q	-	2
Trichloroethylene	133	2	Q	Q	Q	0.929	2	34,499	Q	-	S
cis 1,3-Dichloro-1-propene	Į.	2	Q.	2	Q.	0.929	2	34,499	Q	-	Q
trans 1,3-Dichloro-1-propene	111	2	Q.	Q	Q	0.929	Q	34,499	Q	-	Q
1,1,2-Trichloroethane	133	QN	QN .	QN	QN	0.929	2	34,499	Q	-	Q
1 2 Discompations	35	217.17	1.9/9E+00	3.621E-02	1.943E+00	0.929	Z.09ZE+00	34,499	4.505E-03	-	4.505E-03
Dorohlorooth Jose	100	2 2	25	2 2	2 2	0.929	2	34,499	2	-	2
Chicabonage	8	2 5	2 5	2	OZ C	0.929	Q.	34,499	2	-	2
Chilborope	55	ON 50	ON I	ON LOCAL	UN	0.929	ON S	34,499	ON CO		ON I
men Xviene	90,	07.420	3.819E-01	1.198E-02	5.699E-01	0.929	6.134E-01	34,499	1.321E-03	-	1.321E-03
iliop-Ayene	202	243.330	1.08ZE+00	3.203E-UZ	1.049E+00	0.929	1.129E+00	34,499	2.433E-03		2.433E-03
3tyrette 1 1 9 9. Totrachloroothana	104	C26.7	1.200E-UZ	2.439E-04	1.241E-02	0.929	1.336E-02	34,499	2.8/8E-05		2.878E-05
A Yulono	90,	450 005	1000 t	1040	ND 002T	0.929	20101	34,439	ON 1	-	001001
p-Ethyltoliana	200	130.323	7.000=-01	1.010E-02	0.027E-UI	0.929	1.349E-01	34,499	1.583E-03	- ,	1.0838-03
1 3 5. Trimethylhensene	130	30.343	2.3235-01	7.6975.02	2.350E-01	0.929	2.530E-01	34,499	5.462E-04	- -	5.462E-04
1 2 4-Trimethylhenzene	120	40.023	A 907E-01	2 000E-03	4 607E 04	0.929	4 060E 04	24,499	1.069C 02	-	3.450E-04
Benzylchloride	127	GN.	ON CN	SOUR-OZ ND	NO. E-01	0.929	NO SUDE-O	34 499	ND CN		-2000-I
m-Dichlorobenzene	147	Q	2	2	2	0.929	Q	34,499	200	-	2 2
p-Dichlorobenzene	147	QN	9	Q	Q	0.929	Q	34,499	Q	-	Q.
o-Dichlorobenzene	147	QN	QN	ND	QN	0.929	QN	34,499	QN	1	S
1,2,4-Trichlorobenzene	181	Q	Q	QN	QN	0.929	QN	34,499	ON	1	QN
Hexachlorobutadiene	261	QN	QV	Q	Q	0.929	QV	34,499	ND	1	QN
Phenylacetylene	102	Q	2	6.579E-04	Q	0.929	Q	34,499	QN	1	S
Indane	118	22.461	1.103E-01	6.217E-03	1.040E-01	0.929	1.120E-01	34,499	2.412E-04	1	2.412E-04
2,3-Dinydro-1-metnyl-1H-indene	132	7.046	3.869E-02	3.747E-03	3.494E-02	0.929	3.761E-02	34,499	8.101E-05	-	8.101E-05
A.S-Diriyuro-4-metriyi- i m-indene	132	8.704	4.780E-02	4.893E-03	4.290E-02	0.929	4.618E-02	34,499	9.946E-05	-	9.946E-05
Naprimalene 2 Methylosophyloso	220	9.238	4.951E-02	7.803E-03	4.171E-02	0.929	4.490E-02	34,499	9.669E-05	1	9.669E-05
1-Mathyinaphthalana	143	S S	2 2	4 400E 00	22	0.929	2 2	34,499	2 5	-	2
Cvanonen	2 62	2 5	2 2	ND ND	2 2	0.959	2 2	34,499	2 2	-	2 2
Methylnitrite	61	15.955	4 049E-02	S	4 049F-02	0.929	4 358E-02	34 499	9 3875-05	-	0 387E-05
Acetonitrile	41	Q	Q	CN	GN	626 0	ND INC	34 499	ND		SOLEN NO.
Acrylonitrile	53	QN	Q	2	2	0.929	Q	34,499	2	-	2
Nitromethane	61	2.179	5.529E-03	QN	5.529E-03	0.929	5.952E-03	34,499	1.282E-05	-	1.282E-05
Propanenitrile	55	Q	Q	Q	QN	0.929	S	34,499	Ð	-	2
2-Methylpropanenitrile	69	QN	QN	QV	Q	0.929	QN	34,499	Q	1	Ð
Pentanenitrile	83	QN	QN	Q	Q	0.929	Q	34,499	Q	-	£
Hexanenitrile	- 6	QN	QN	QN	ND	0.929	ND	34,499	QN	1	2
Benzonitrile	103	Q	2	Q	ON	0.929	QN	34,499	QN	1	QN
2-Nitrophenol	139	Q	9	Q	ND	0.929	QN	34,499	QN	-	QV
Acrolein	56	3.198	7.451E-03	Q	7.451E-03	0.929	8.021E-03	34,499	1.727E-05	-	1.727E-05
Acetone	36	9.242	2.153E-02	6.577E-03	1.495E-02	0.929	1.610E-02	34,499	3.467E-05	+	3.467E-05

TABLE A-9. AEC - VOC RUN NO. 2 DATA FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1998)

		SATURATION OF THE PARTY OF THE		-							
					Background						Corrected
		Average	Average	Background -	Concentration	Dilution	Corrected	Initial Dirima	Sample Total	1	Emission
Compound (a)	Weight	Run 2, ppbv	Run 2, mg/m³	mg/m³	Run 2, mg/m²	Factor (b), %	Run 2, mg/m³	Volume, ft	2, lb	tems	2, lb/item
1-Hydroxy-2-propanone	74	QN.	QN	Q.	QN	0.929	QN	34,499	QN	-	Q
Furan	89	Q	QN	QN	QN	0.929	QN	34,499	QN	1	QN
2-Propanol	9	9	QN	Q	Q	0.929	2	34,499	Q	1	QV
2-Methylpropanal	74	Q	QN	QN	Q.	0.929	QN	34,499	QN	1	QN
1-Propanol	09	Q	QV	Q	S	0.929	S	34,499	Q	-	QN
Methacrolein	70	9	QN	QN	QN	0.929	Q	34,499	QN	1	QN
Methyl-vinyl Ketone	70	QN	QN	QN	QN	0.929	QN	34,499	QN	1	QN
MTBE	88	124.505	4.558E-01	3.675E-03	4.521E-01	0.929	4.867E-01	34,499	1.048E-03	1	1.048E-03
2,3-Butanedione	98	QN	QN	QN	ON	0.929	QN	34,499	ND	1	ND
Butanal	72	QN	QN	2.138E-04	QN	0.929	QN	34,499	QN	1	QN
2-Butanone	72	2.704	8.098E-03	7.549E-04	7.343E-03	0.929	7.904E-03	34,499	1.702E-05	1	1.702E-05
2-Methyl-1,3-dioxolane	88	QN	QN	QN	QN	0.929	QN	34,499	ND	1	QN
2-Methylfuran	82	QN	QN	QN	QN	0.929	QN	34,499	QN	1	QN
Tetrahydrofuran	72	QN	GN	QN	QN	0.929	QN	34,499	QN	1	ON
trans-2-Butenal	20	QN	QΝ	QN	QN	0.929	QN	34,499	QN	+	QN
Acetic Acid	09	6.623	1.653E-02	2.198E-03	1.433E-02	0.929	1.543E-02	34,499	3.323E-05	1	3.323E-05
1-Butanol	74	QN	QN	QN	QN	0.929	QN	34,499	QN	1	QN
2-Pentanone	98	ON	QN	ND	QN	0.929	QN	34,499	QN	- 1	QN
Pentanal	98	QN	QN	1.078E-03	QN	0.929	QN	34,499	ON	1	QN
1,4-Dioxane	88	QN	QN	ON	QN	0.929	QN	34,499	QN	1	QN
Methyl Methacrylate	100	QN	ND	ND	QN	0.929	QN	34,499	Q	-	QN
Cyclopentanone	84	QN	ND	ON	QN	0.929	QN	34,499	QN	1	QN
Hexanal	100	QN	ND	1.307E-03	QN	0.929	QN	34,499	S	-	QN
2-Furaldehyde	96	QN	DN	ND	QN	0.929	QN	34,499	S	1	Q
Cyclohexanone	86	QN	QN	ND	QN	0.929	QN	34,499	ON	1	QN
Heptanal	114	1.056	5.009E-03	1.114E-03	3.895E-03	0.929	4.192E-03	34,499	9.029E-06	1	9.029E-06
2-Butoxyethanol	118	QN	ND	ND	QN	0.929	QN	34,499	ND	1	QV
Benzaldehyde	106	9.610	4.237E-02	2.201E-03	4.017E-02	0.929	4.324E-02	34,499	9.314E-05	1	9.314E-05
6-Methyt-5-hepten-2-one	126	Q	ND	ND	QN	0.929	QN	34,499	Q	1	QN
Octanal	128	2.426	1.292E-02	2.664E-03	1.025E-02	0.929	1.104E-02	34,499	2.377E-05	1	2.377E-05
Benzofuran	118	QN	ON	ND	QN	0.929	QN	34,499	QN	1	QN
2-Ethyl-1-hexanol	120	QN	QN	QN	QN	0.929	QN	34,499	QN	1	QN
Acetophonone	120	QN	ON	QN	QN	0.929	QN	34,499	QN	1	QN
Nonanal	142	2.928	1.730E-02	4.928E-03	1.237E-02	0.929	1.331E-02	34,499	2.868E-05	1	2.868E-05
Decanal	156	1.786	1.159E-02	3.296E-03	8.298E-03	0.929	8.932E-03	34,499	1.924E-05	1	1.924E-05
Carbonyl Sulfide	09	1.032	2.577E-03	2.621E-04	2.315E-03	0.929	2.491E-03	34,499	5.366E-06	1	5.366E-06
Carbon Disulfide	92	3.752	1.186E-02	5.883E-04	1.128E-02	0.929	1.214E-02	34,499	2.614E-05	1	2.614E-05
Thiophene	84	ON	ND N	ND	ON	0.929	QN	34,499	QN	-	ON
Dimethyldisulfide	94	ON.	Q	Q	Q	0.929	Q	34,499	Q	-	Q

a Compounds in bold represent duplicate values.

TABLE A-10. AEC - SVOC DATA EVALUATION FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1998)

Compound	Average Concentration - Run 1, mg/m²	Average Concentration - Run 2, mg/m³	Average Concentration - Run 1-2, mg/m³	Average Concentration - Run 1-2, mg/m³	Average Background • Concentration, mg/m²	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit • Concentration, mg/m*	Background Evaluation Crtteria	Minimum Datection Limit Evaluation Criteria	Background Evaluation Notes	Minimum Detection Limit Evaluation Notes
Particulate/Vapor-phase SVOCs											
N-Nitrosodimethylamine	QN	QN	QN	QN	QN	1.228E-04	1.228E-04	QN	QN	F	L
Pyridine	Q	Q	QN	QN	QN	3.599E-04	3.599E-04	Q	QN	Ł	Œ.
2-Picoline	Q	g	Q	Q	QN	3.740E-04	3.740E-04	Q	2	Ŧ,	ш
Methyl methanesulfonate	9	Q	ON	Q	QN	1.415E-04	1.415E-04	Q	Q	ц	u
N-Nitrosomethylethylamine	9	Q	Q	Q	Q	2.809E-04	2.809E-04	2	2	ш	ш.
N-Nitrosodiethylamine	9	Q	Ð	Q	Q	2.999E-04	2.999E-04	9	Q	ш	ıL
Ethyl methanesulfonate	2	Q	Q	QV	Q	1.380E-04	1.380E-04	Q	Q	ш	ш
Phenoi	2	Q	2	2	Q	8.821E-05	8.821E-05	2	2	4	ш
Aniline	9	Q	Q	Q	2	1.408E-04	1.408E-04	2	9	<u>ا</u> ـــا	ш
bis(2-Chloroethyl)ether	Q	Q	2	Q	2	1.101E-04	1.101E-04	g	9	ш	u
Pentachloroethane	9	Q.	Q	Q	2	2.544E-04	2.544E-04	Q	2	щ	LL I
2-Chlorophenoi	2	2	2	2	2	5.610E-05	5.610E-05	2 5	2		1
1,3-Dichloropenzene	2		2	2	2	1.083E-04	1.083E-04	2	2	_	
1,4-Ucniorobenzene	ON LOGO	2	ON LOS	ON L	2	2.1735-04	2.173E-04	S S	2		1
Derizyl arcurol	4.209E-04	2	0.010E-04	5.153E-04	2 2	2.459E-04	2.459E-04	00.01	2.10	۷ 4	שנ
1 2-Dichlorobenzene	28	25	2 2	2 2	2 2	1.37.35-04	1.574E-04	2 2	2 2	u	_
bis(2-Chloroisopropy) ether	GN.	S C	2 2	2 5	2 2	1 327E-04	1 327F-04	2 5	2 2	u.	L L
o-Toluidine	Q	CX	2 5	S	2	1 397F-04	1.397F-04	S	2	u	_ u
4-Methylphenol/3-Methylphenol	4.388E-04	5.304E-04	4.560E-04	4.751E-04	2	1.672E-04	1.672E-04	10.00	2.84	. <	Jo
N-Nitroso-di-n-propylamine	QN	S	QN	Q.	2	9.915E-05	9.915E-05	QN	2	ш	
Acetophenone	QN	QN	Q	Q	1.786E-04	1.041E-04	1,041E-04	Q	Q	_	u.
N-Nitrosomorpholine	QN	QN	QN	QN	QN	3.172E-04	3.172E-04	QN	QN	4	L.
N-Nitrosopyrrolidine	QN	QN	QN	QN	QN	4.199E-04	4.199E-04	QN	QN	F	ц
Hexachloroethane	Q	Q	Q	Q	Q	1.743E-04	1.743E-04	Q	Q	Щ	Ŧ.
Nitrobenzene	Q	Q	Q	Q	QN	3.144E-04	3.144E-04	QN	QN	Ц	Ŧ.
N-Nitrosopiperidine	Q	Q	9	Q	Q	2.572E-04	2.572E-04	Q	Q	ш	ı
Isophorone	Q.	QN	2	9	2	7.551E-05	7.551E-05	Q	Q	ш	ц
2,4-Uimethylphenoi	2	QV	2	2	Q	1.189E-04	1.189E-04	Q	2	<u>ا</u>	
K-Mirophenol		2 2	2 2	2	2 9	1.891E-04	1.891E-04	2	2	1	<u>_</u>
Bonyoic soid	2 2	2 2	2 2	2 2	2 2	1.3000-04	1.3000-04	2	2 2		L
2 4-Dichlorothanol	2 5	2 5	2 5	2 2	2 5	1 7205-04	1 720E-04	2 2	2 2		L
1.2.4-Trichlorobenzene	2	2	Q	S	SS	1.723E-04	1 246F-04	2 5	2 2		_
Naphthalene	2.541E-02	1.952E-02	2.969E-02	2.487E-02	2	1.577E-04	1.577E-04	10.00	157.72	\ \ \	
p-Chloroaniline	Q	QN	9	9	2	1.136E-04	1.136E-04	£	Q	ш	
2,6-Dichlorophenol	QN	QN	Ð	2	Q	1.214E-04	1.214E-04	Q	QV	ш	L
Hexachloropropene	QN	QN	QV	Q	2	1.994E-04	1.994E-04	2	9	4	L
Hexachlorobutadiene	QN	ON	ON.	QV	QV	1.799E-04	1.799E-04	QN	Q	ш	u.
Dimethylphenethylamine	Q	ON	QN	QV	QN	7.198E-03	7.198E-03	QN	QN	F	և
N-Nitroso-di-n-butylamine	QN	QV	ON	QN	QN	1.320E-04	1.320E-04	QN	QN	ı.	u.
4-Chloro-3-methylphenol	Q	QN	ON	QV	ON	2.001E-04	2.001E-04	ND	QN	F	F
Safrole	QN	Q	Q	Q	QN	2.509E-04	2.509E-04	QV	QN	F	Ŧ
2-Methylnaphthalene	9.332E-03	1.010E-02	1.279E-02	1.074E-02	9	1.267E-04	1.267E-04	10.00	84.78	¥	¥
1,2,4,5-1 etrachiorobenzene	QN	Q.	2	Q	9	1.926E-04	1.926E-04	Ð	Ω	ı.	u.
Hexachlorocyclopentadiene	Q	Q.	9	Q	Q	3.916E-03	3.916E-03	g	Q	ш	u.
2,4,6-1 richlorophenol	2 2	2 2	9	2	2	2.226E-04	2.226E-04	2	Q	u. i	L.
Attached and a second	22	2 2		2	2	1.891E-04	1.8915-04	2	2 2	-	
Sosaroid		2	2		2	3.8115-04	3.8115-04	2			
							J	T		T	

TABLE A-10. AEC - SVOC DATA EVALUATION FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1998)

Concentration Concentration Concentration 2-Chloronaphthalene ND Ann. 1, mg/m³ Run 2, mg/m³ 2-Chloronaphthalene ND ND ND 1.4-Naphthoquinone ND ND ND 1.3-Initropenione ND ND ND 1.3-Initropenione ND ND ND 2-Chinitrophenol ND ND ND 2-A-Dinitrophenol ND ND ND A-Nitro-orbinaline ND ND ND A-Nitrophenylphenol ND ND ND A-Nitrophenylphenyl ether ND ND ND A-Nitrophenylphenyl ND	- Cone	Concentration - Run 1-2, mg/m³ ND ND ND ND ND ND ND ND ND N	Concentration, mg/m³ mg/m² mg/	Concentration, mg/m³ 1.990E-04 1.263E-04 3.528E-04	Concentration, mg/m³	Evaluation	Evaluation Criteria	Evaluation Notes	Evaluation
┠┼╎┼╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎ ┼┼┼┼┼┼┼┼	┖┼┊┼┼┊╎╎╎┼┼┼┼┼┼┼┼╎╎╎┼┼┼┼┼┼	ND ND ND ND ND ND ND ND ND ND ND ND ND N	99999999999999	1.990E-04 1.263E-04 3.528E-04 1.027E-04			CN		Notes
		ND ND ND ND ND ND ND ND ND ND ND ND ND N	2222222222222	1.263E-04 3.528E-04 1.027E-04	1.990E-04	QN	2	_	L
		ND ND ND ND ND ND ND ND ND ND ND ND ND N	9999999999999	3.528E-04 1.027E-04	1.263E-04	2	9	ш	<u>u</u>
		ND ND ND ND ND ND ND ND ND ND ND ND ND N	999999999999	1.027E-04	3.528E-04	QV	QN	u.	4
		ND N	999999999		1.027E-04	QN	ON	F	F
		ND ND ND ND ND ND ND ND ND ND ND ND ND N	9999999999	2.953E-04	2.953E-04	QN	QN	Ŧ	ட
		5.057E-04 ND	222222222	2.484E-04	2.484E-04	QN	QN	F	F
		ND ND ND ND ND ND ND ND ND ND ND ND ND N	Q Q Q Q Q Q	1.154E-04	1.154E-04	10.00	4.38	A	၁
		ND N	222222	3.108E-04	3.108E-04	QN	ON	F	F
		ND N	2222	1.083E-02	1.083E-02	QN	ON	F	4
		ND N	9999	1.111E-02	1.111E-02	QN	ND N	F	Ł
		ND ND ND ND ND 1009E-04 ND ND ND ND ND ND ND ND ND ND ND ND ND	ON ON	1.270E-04	1.270E-04	QN	QN	F	н
		ND N	Q Q	1.570E-04	1.570E-04	QN	QN	ш	щ
		ND ND ND ND 1.009E-04 ND ND ND ND ND ND ND ND ND ND ND ND ND	QV	8.609E-05	8.609E-05	Q	Q	u.	L
		ND N		2.378E-04	2.378E-04	QV	Q	F	L
		ND ND ND 1.009E.04 ND ND ND ND ND ND	QV	6.210E-04	6.210E-04	QN	9	u	L
		ND ND ND 1.009E-04 ND ND ND ND ND	Q	5 504F-04	5 504F-04	S	Š	L	L
		9.944E-05 ND 1.009E-04 ND ND ND ND ND ND ND	SN	2.519F-04	2 519F-04	CN	2 2	. u	. u
		N D OOGE-04	2 247F-04	9 174F-05	9 1745.05	0.44	80.	u	. c
		1,009E-04 ND ND ND ND	ND ON	9.174E-03	0.04E-03	‡ <u>C</u>	80.12	L	S u
		ON ON ON	2 2	\$ 200E-03	4 200E-03		200	_ <	
		Q Q Q Q	2 4	1.200E-04	1 200E-04	0.00	6.0	۲ ر	
		2005	2 2	2 7245.04	2 7245 04	2 2	2 2		L
		Q Q	2	0.6075.00	0.0345-04	2 2	2 2	L	
		2 :	Q.	9.3976-03	9.0976-03	2 2	2 2	<u> </u>	. ا
		=	2 2	4.440E-04	4 4 4 0 E 0 4	2 2	2 2	١	_ .
		CN	S	1 676F-04	1 676E-04	2 2	2 2	_	- -
			2 2	7 904E-05	7 904E-05	2 2	2 2		_ _
			2 2	2 424E-03	20.42.40.00	2 2	2 2		
	1	2 2	2 2	1 200E 04	1 2005 04	2 2	2 2		
		2 2	2 2	7 2045 04	7 2045 04	2 2	2 2	L	
			2 2	0.04C-04	1.304E-04		2 2		
	G S	2 2	2	9.000E-03	9.00dE-03	2 2	2 2		- -
		S S	2 5	4 728F-04	4 728E-04	2 2	2 2	_ "	L
	2.8	2.954E-04	2	2.152E-04	2.152F-04	10.00	137	. 4	
		QN	Q	1.291E-04	1.291E-04	Q	Q	L	
		QN	Q	8.644E-05	8.644E-05	9	9	u	
	-03 3.202E-04	7.337E-04	1.615E-03	5.998E-05	5.998E-05	0.45	12.23	L	A
	QN	2	Q	7.939E-03	7.939E-03	Q	Q	ш	L
		QN	QN	7.304E-03	7.304E-03	Q	ą	L	1
		QN	QN	1.274E-04	1.274E-04	QN	Q	u.	L
ON ON		ON	ND	4.728E-03	4.728E-03	QN	QN	F	u.
		ON	QN	1.750E-04	1.750E-04	QN	QN	L	ш
QN	QN	QN	ON	1.298E-04	1.298E-04	QN	QN	ц	F
		ON	ND	1.807E-04	1.807E-04	QN	QN	Œ	4
ON ON		QN	Q.	6.633E-03	6.633E-03	ON	ON	F	F
		QV	ON	7.233E-05	7.233E-05	QN	QN	F	F
		Q	Q	6.986E-04	6.986E-04	QN	QN	L.	F
	Q	Q.	9	1.101E-04	1.101E-04	2	Q	u.	£
+		Q C	2	4.305E-04	4.305E-04	2	2	щ	L.
ON CA	ON S	Q.	2	1.182E-04	1.182E-04	QN .	QN .	ı.	ш.

TABLE A-10. AEC - SVOC DATA EVALUATION FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1998)

	T	Г	_	_		_			Г	П
Minimum Detection Limit Evaluation Notes	4	L	ш	щ	u_	u.	¥	ш	u.	щ
Background Evaluation Notes	4	ı.	ш.	ļu.	ш.	щ	u.	ш	щ	4
Minimum Detection Limit Evaluation Criteria	ND	QV	Q	Q	Q	Ð	QN	QN	ą	QN
Background Evaluation Criteria	QN	Q	Q	QN	Ð	2	QN	QN	QN	QN
Average Minimum Detection Limit - Concentration, mo/m³	1.722E-04	1.101E-04	1.627E-04	9.809E-05	2.050E-04	1.161E-04	4.128E-04	7.727E-05	8.680E-05	8.327E-05
Average Maximum Detection Limit - Concentration,	1.722E-04	1.101E-04	1.627E-04	9.809E-05	2.050E-04	1.161E-04	4.128E-04	7.727E-05	8.680E-05	8.327E-05
Average Background - Concentration,	QN	S	2	Q	QN	9	QN	QN	QN	ND
Average Concentration - Run 1-2. morm³	QN	Q	Q	QV	QN	Q	QV	QN	QN	ND
Average Concentration - Run 1-2. mo/m³		S	2	QN	Q	Q	QN	QN	QN	QN
Average Concentration - Run 2. mo/m³	QN	Q	S	QN	QN	S	QN	QN	QN	QN
Average Concentration - Bun 1, mo/m³	QN	S	Ð	QN	ΩN	Q.	QN	QN	QN	QN
Punoguno	Сhrysene	Di-n-octylphthalate	7,12-Dimethylbenz(a)anthracene	Benzo(b)fluoranthene (a)	Benzo(k)fluoranthene (a)	Benz(a)pyrene	3-Methylcholanthrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

A = Identified as a contaminant (greater than or equal to 10 times background or minimum MQL)

B = Likely contaminant (less than 10 and greater than or equal to 5 times background or minimum MQL)

C = Probable contaminant (less than 5 and greater than or equal to 2 times background or minimum MQL)

D = Measured, but accuracy or presence questionable (less than 2 and greater than or equal to 1 times background or minimum MQL)

F = Not considered a contaminant (less than 1 times background or minimum MQL)

TABLE A-11. AEC - SVOC RUN NO. 1 DATA FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1998)

NO	Compound	Molecular Weight	Average Concentration - Run 1, ppbv	Average Concentration - Run 1, mg/m³	Background - Concentration, mg/m³	Background Corrected Concentration - Run 1, mg/m³	Dilution Correction Factor (b), %	Corrected Concentration - Run 1, mg/m³	Initial Plume Volume, ft³	Sample Total Material - Run 1, lb	Number of Items	Corrected Emission Factor - Run 1, Ib/item
74 NO NO NO OTMAN NO CORREY NO CORREY NO CORREY NO CORREY NO CORREY NO NO 1 1193 NO NO NO NO NO NO 0.7887 NO 0.3599 NO 1 1193 NO NO NO NO NO NO 0.7887 NO 0.3599 NO 1 1194 NO NO NO NO NO NO 0.7887 NO 0.3599 NO 1 1194 NO NO NO NO NO NO 0.7887 NO 0.3599 NO 1 1195 NO NO NO NO NO NO 0.7887 NO 0.3599 NO 1 1104 NO NO NO NO NO NO 0.7887 NO 0.3599 NO 1 1102	phase SVOCs							:				
15.5 NO	nine	74	QN	QN	QN	Q	0.7887	QN	33,908	QV	-	2
110		79	2	QN	QN	QV	0.7887	QN	33,908	QN	-	QN
10 NO NO NO NO NO NO NO N		93	ON	QN	ND	ON	0.7887	ON	33,908	QN	1	QN
88 ND ND ND 0.7887 ND 33,908 ND 1 124 ND ND ND 0.77887 ND 33,908 ND 1 124 ND ND ND ND 0.77887 ND 33,908 ND 1 134 ND ND ND ND 0.77887 ND 33,908 ND 1 135 ND ND ND ND 0.77887 ND 1 1 147 ND ND ND 0.77887 ND 33,908 ND 1 147 ND ND ND 0.77887 ND 1 1 147 ND ND ND ND 0.77887 ND ND 1 147 ND ND ND ND ND 0.77887 ND ND 1 147 ND ND ND ND ND ND	nate	110	QN	QN	QN	QN	0.7887	QN	33,908	QN	1	QN
102 ND ND ND ND 077867 ND 33,306 ND 1 944 ND ND ND ND 077867 ND 33,306 ND 1 945 ND ND ND ND ND ND 07867 ND 33,306 ND 1 2129 ND ND ND ND ND 077867 ND 33,306 ND 1 2129 ND ND ND ND ND 077867 ND 33,306 ND 1 2129 ND ND ND ND 077867 ND 12,006 ND 1 1173 ND ND ND ND 077867 ND ND 1 1174 ND ND ND ND 077867 ND 1171669 ND 1 1174 ND ND ND ND ND ND 1778	amine	88	QN	QN	QN	ON	0.7887	ON	33,908	QN	1	QN
124 ND	0	102	Q	Q	QN	P	0.7887	S	33,908	Q.	-	2
94 ND ND ND O77867 ND 33,908 ND 1 242 ND ND ND ND ND 0.7867 ND 33,908 ND 1 242 ND ND ND ND ND ND 0.7867 ND 33,908 ND 1 242 ND ND ND ND ND 0.7867 ND 33,908 ND 1 143 ND ND ND ND 0.7867 ND 33,908 ND 1 1447 ND ND ND ND 0.7867 ND 17,118 ND 1 1447 ND ND ND ND 0.7867 ND 17,118 ND 1 1448 ND ND ND ND ND 0.7867 ND 11,118 ND 1 144 ND ND ND ND ND 0.78	ıte	124	QN	QN	QN	QN	0.7887	QN	33,908	QN	1	QN
933 ND ND ND O 77887 ND 33,908 ND 1 1222 ND ND ND ND 0.7887 ND 33,908 ND 1 1232 ND ND ND ND 0.7887 ND 33,908 ND 1 147 ND ND ND ND 0.7887 ND 33,908 ND 1 147 ND ND ND ND 0.7887 ND 15,908 ND 1 144 ND ND ND 0.7887 0.7887 ND 15,908 ND 1 144 ND ND ND 0.7887 ND 15,908 ND 1 144 ND ND ND 0.7887 ND 15,908 ND 1 144 ND ND ND 0.7887 ND 0.7889 ND 1 143 ND ND		94	Q	S	QV	Q	0.7887	QN	33,908	QN	-	Q
143 NO NO NO NO 0.7887 ND 323.998 ND 1 125 NO ND ND ND 0.7887 ND 323.998 ND 1 1447 NO ND ND ND 0.7887 ND 323.998 ND 1 1447 NO ND ND ND 0.7887 ND 323.998 ND 1 1447 ND ND ND ND 0.7887 ND 323.998 ND 1 1447 ND ND ND ND 0.7887 ND 323.998 ND 1 1447 ND ND ND ND 0.7887 ND 323.998 ND 1 1447 ND ND ND ND 0.7887 ND 323.998 ND 1 1447 ND ND ND ND 0.7887 ND 323.998 ND 1 145 ND ND ND ND 0.7887 ND 0.23.998 ND 1 145 ND ND ND ND 0.7887 ND 0.23.998 ND 1 145 ND ND ND ND 0.7887 ND 0.23.998 ND 1 145 ND ND ND ND 0.7887 ND 0.23.998 ND 1 145 ND ND ND		93	Ð	S	QV	Ð	0.7887	Q	33,908	QV	ļ	S
2022 ND ND ND ND OFFRET ND 33.908 ND 1 1437 ND ND ND ND 0.7887 ND 33.908 ND 1 1447 ND ND ND ND 0.7887 ND 23.908 ND 1 169 NO 420E-64 ND 0.7887 ND 33.908 ND 1 169 NO 420E-64 ND 0.7887 ND 33.908 ND 1 171 ND ND ND 0.7887 ND 0.53.908 ND 1 171 ND ND ND 0.7887 ND 0.7887 ND 1 172 ND ND ND 0.7887 ND 0.7887 ND 1 172 ND ND ND 0.7887 ND 0.7887 ND 1 172 ND ND ND ND </td <td>ē</td> <td>143</td> <td>Q</td> <td>QN</td> <td>QN</td> <td>Q</td> <td>0.7887</td> <td>QN</td> <td>33,908</td> <td>Q.</td> <td>-</td> <td>Q</td>	ē	143	Q	QN	QN	Q	0.7887	QN	33,908	Q.	-	Q
172 NO NO ND NO ND ND O.7867 ND 33.908 ND ND ND ND ND O.7867 ND 33.908 ND ND ND ND ND O.7867 ND 33.908 ND ND ND ND O.7867 O.7867		202	QV	QN	QV	Q.	0.7887	QN	33,908	9	-	QN
147 ND ND ND ND ND 0.7887 ND 33.908 ND 1 1 1 1 1 1 1 1 1		129	Q	QN	QN	Q	0.7887	QN	33,908	QN	-	Q
147 ND ND ND ND C7887 ND 55.3566 1.1516-00 1 106 ND ND ND ND ND 0.7887 ND 53.3968 ND 1 1171 ND ND ND ND ND ND 1.7887 ND 53.3968 ND 1 1171 ND ND ND ND ND 0.7887 ND 53.3968 ND 1 1171 ND ND ND ND ND 0.7887 ND 53.3968 ND 1 110 ND ND ND ND ND 0.7887 ND 1.1666 1 110 ND ND ND ND ND 0.7887 ND ND ND 110 ND		147	QV	QV	QN	Q	0.7887	QN	33,908	Q.	-	Q
108 ND ND AZBRECAM 0.7887 54.38E-Q4 33.908 1151E-G6 1 110 ND ND ND ND ND 0.7887 ND 33.908 1151E-G6 1 117 ND ND ND ND ND ND 0.7887 ND 33.908 ND 1 117 ND ND ND ND ND 0.7887 ND 1 1 110 ND ND ND ND ND ND 0.7887 ND 1 1 110 ND ND ND ND ND 0.7887 ND 1 1 110 ND ND ND ND ND 0.7887 ND ND ND 1 110 ND		147	Q	Q	QN	2	0.7887	QN	33,908	Q	-	Ð
1476 ND ND ND ND ND ND 1789 ND 33,908 ND 1 1771 ND ND ND ND 0.7887 ND 33,908 ND 1 1771 ND ND ND ND 4,388E04 0.7887 ND 33,908 ND 1 103 ND ND ND 4,388E04 0.7887 ND 33,908 ND 1 110 ND ND 1,786E04 0.7887 ND 33,908 ND 1 120 ND ND ND 0.7887 ND 33,908 ND 1 110 ND ND ND 0.7887 ND 33,908 ND 1 110 ND ND ND ND ND ND 0.7887 ND 1 1 110 ND ND ND ND ND ND 0.7887 ND		108	0.095	4.289E-04	QN	4.289E-04	0.7887	5.439E-04	33,908	1.151E-06	-	1.151E-06
147 ND ND ND ND O72867 ND 333-908 ND 1 107 ND ND ND ND 0.7887 ND 333-908 ND 1 108 0.098 4.388E-64 ND 0.7887 ND 333-908 ND 1 130 ND		108	QN	QN	QN	QV.	0.7887	QN	33,908	ON	l l	QN
171 ND ND ND 07887 ND 33908 ND 1 112 ND ND ND ND 0.7887 ND 33908 ND 1 112 ND ND ND 1.786E-04 ND 0.7887 ND 33908 ND 1 120 ND ND ND 1.786E-04 ND 0.7887 ND 33908 ND 1 120 ND ND ND ND 0.7887 ND 33908 ND 1 110 ND ND ND ND 0.7887 ND 33908 ND 1 1123 ND ND ND ND 0.7887 ND 33908 ND 1 1123 ND ND ND ND ND 0.7887 ND 33908 ND 1 1124 ND ND ND ND ND 0.7887 ND		147	Q	2	QN	QV	0.7887	QN	33,908	Q.	-	Q
107 ND ND ND ND O 7887 ND 33.908 I ND 1 ND 150 ND ND ND 4.38E-64 ND 0.7887 5.66E-04 33.908 I ND 1 150 ND ND ND 1.78E-04 ND 0.7887 ND 33.908 I ND 1 150 ND ND ND ND ND 0.7887 ND 33.908 ND 1 150 ND ND ND ND ND 0.7887 ND 33.908 ND 1 152 ND ND ND ND ND 0.7887 ND 33.908 ND 1 132 ND ND ND ND ND 0.7887 ND 33.908 ND 1 132 ND ND ND ND ND ND 0.7887 ND 33.908 ND 1 132 <td< td=""><td>d)ether</td><td>171</td><td>Q</td><td>Q</td><td>QV</td><td>Q</td><td>0.7887</td><td>QV</td><td>33,908</td><td>9</td><td>-</td><td>Q</td></td<>	d)ether	171	Q	Q	QV	Q	0.7887	QV	33,908	9	-	Q
100 0.089 4.388E-04 ND 4.38E-04 ND 6.7887 ND 5.65E-04 33.909 1178E-06 1 120 ND ND ND 1.78E-04 ND 0.7887 ND 33.908 ND 1 120 ND ND ND ND ND 0.7887 ND 33.908 ND 1 116 ND ND ND ND ND 0.7887 ND 33.908 ND 1 123 ND ND ND ND ND 0.7887 ND 33.908 ND 1 112 ND ND ND ND 0.7887 ND 33.908 ND 1 112 ND ND ND ND ND ND 0.7887 ND 33.908 ND 1 1123 ND ND ND ND ND 0.7887 ND 33.908 ND 1		107	QV	2	QN	9	0.7887	S	33,908	9	-	Q
130 ND ND ND ND O.7887 ND 33.968 ND 1 116 ND ND ND 0.7887 ND 33.968 ND 1 116 ND ND ND ND 0.7887 ND 33.968 ND 1 217 ND ND ND ND ND 0.7887 ND 33.968 ND 1 1123 ND ND ND ND ND 0.7887 ND 33.968 ND 1 113 ND ND ND ND ND 0.7887 ND 33.968 ND 1 113 ND ND ND ND ND 0.7887 ND ND ND 113 ND	sthytphenol	108	0.098	4.388E-04	QN	4.388E-04	0.7887	5.563E-04	33,908	1.178E-06	1	1.178E-06
110 ND ND 1786E-04 ND 077887 ND 33,908 ND 1 110 ND ND ND ND 077887 ND 33,908 ND 1 110 ND ND ND ND ND ND 07887 ND 33,908 ND 1 123 ND ND ND ND ND ND 07887 ND 33,908 ND 1 123 ND ND ND ND ND 07887 ND 33,908 ND 1 123 ND ND ND ND ND 07887 ND 33,908 ND 1 122 ND ND ND ND ND ND 07887 ND 33,908 ND 1 1122 ND	lamine	130	QN	QN	QN	QN	0.7887	QN	33,908	QN	1	2
116 ND ND ND ND 0.7887 ND 33,908 ND 1 237 ND ND ND ND 0.7887 ND 33,908 ND 1 237 ND ND ND ND ND ND 0.7887 ND 33,908 ND 1 113 ND ND ND ND ND ND 0.7887 ND 33,908 ND 1 138 ND ND ND ND ND 0.7887 ND 33,908 ND 1 139 ND ND ND ND 0.7887 ND 33,908 ND 1 143 ND ND ND ND ND 0.7887 ND 33,908 ND 1 152 ND ND ND ND ND ND ND 0.7887 ND 33,908 ND 1 153 ND <td></td> <td>120</td> <td>ON</td> <td>QN</td> <td>1.786E-04</td> <td>QN</td> <td>0.7887</td> <td>ON</td> <td>33,908</td> <td>QN</td> <td>1</td> <td>QN</td>		120	ON	QN	1.786E-04	QN	0.7887	ON	33,908	QN	1	QN
210 ND ND ND ND OF/867 ND 33,908 ND 1 123 ND ND ND ND 0,7867 ND 33,908 ND 1 123 ND ND ND ND ND 0,7867 ND 33,908 ND 1 134 ND ND ND ND ND 0,7867 ND 33,908 ND 1 135 ND ND ND ND ND 0,7867 ND 33,908 ND 1 135 ND ND ND ND 0,7867 ND 33,908 ND 1 136 ND ND ND ND 0,7867 ND 33,908 ND 1 143 ND ND ND ND 0,7867 ND 33,908 ND 1 184 ND ND ND ND 0,7867 ND 33		116	ON	QN	QN	ON	0.7887	QN	33,908	QN	1	Q
237 ND ND ND ND 0.7887 ND 33.908 ND 1 1124 ND ND ND ND ND 0.7887 ND 33.908 ND 1 1124 ND ND ND ND ND ND 0.7887 ND 33.908 ND 1 1125 ND ND ND ND ND 0.7887 ND 33.908 ND 1 132 ND ND ND ND ND 0.7887 ND 33.908 ND 1 132 ND ND ND ND 0.7887 ND 33.908 ND 1 122 ND ND ND ND 0.7887 ND 33.908 ND 1 163 ND ND ND ND ND 0.7887 ND 33.908 ND 1 183 ND ND ND ND<		100	ON	QN	ND	QN	0.7887	QN	33,908	QN	ļ .	QN
1123 ND ND ND 0.7887 ND 33.908 ND 1 1144 ND ND ND 0.7887 ND 33.908 ND 1 138 ND ND ND ND 0.7887 ND 33.908 ND 1 139 ND ND ND ND 0.7887 ND 33.908 ND 1 172 ND ND ND ND 0.7887 ND 33.908 ND 1 163 ND ND ND 0.7887 ND 33.908 ND 1 163 ND ND ND 0.7887 ND 33.908 ND 1 163 ND ND ND ND 0.7887 ND 1 1 163 ND ND ND ND ND 0.7887 ND 33.908 ND 1 163 ND ND ND		237	ON	QN	QN	ON	0.7887	QN	33,908	QN	1	ON
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122 ND ND ND ND 0.7887 ND 33.908 ND 1 139 ND ND ND ND 0.7887 ND 33.908 ND 1 173 ND ND ND ND ND ND 0.7887 ND 33.908 ND 1 122 ND ND ND ND ND 0.7887 ND 33.908 ND 1 128 A772 2.5415-02 ND ND 0.7887 ND 33.908 ND 1 128 A772 2.5416-02 ND 0.7887 ND 33.908 ND 1 128 ND ND ND ND 0.7887 ND 33.908 ND 1 128 ND ND ND ND ND 0.7887 ND 33.908 ND 1 249 ND ND ND ND ND 0.7887 </td <td></td> <td>138</td> <td>QV</td> <td>ND</td> <td>ND</td> <td>ON</td> <td>0.7887</td> <td>ON</td> <td>33,908</td> <td>QN</td> <td>1</td> <td>ON</td>		138	QV	ND	ND	ON	0.7887	ON	33,908	QN	1	ON
139 ND ND ND O 7887 ND 33.908 ND 1 173 ND ND ND ND 0.7887 ND 33.908 ND 1 122 ND ND ND ND 0.7887 ND 33.908 ND 1 163 ND ND ND ND 0.7887 ND 33.908 ND 1 181 ND ND ND 0.7887 ND 33.908 ND 1 183 ND ND ND 0.7887 ND 33.908 ND 1 183 ND ND ND 0.7887 ND 33.908 ND 1 184 ND ND ND ND 0.7887 ND 33.908 ND 1 184 ND ND ND ND 0.7887 ND 33.908 ND 1 185 ND ND <td< td=""><td></td><td>122</td><td>Q</td><td>QN</td><td>QN</td><td>QN</td><td>0.7887</td><td>QN</td><td>33,908</td><td>ON</td><td>1</td><td>ND</td></td<>		122	Q	QN	QN	QN	0.7887	QN	33,908	ON	1	ND
173 ND ND ND 0.7887 ND 33,908 ND 1 122 ND ND ND ND 0.7887 ND 33,908 ND 1 163 ND ND ND ND 0.7887 ND 33,908 ND 1 181 ND ND ND ND ND 0.7887 ND 33,908 ND 1 128 4.772 2.541E-02 ND 0.7887 ND 33,908 ND 1 128 ND ND ND ND ND 0.7887 ND 33,908 ND 1 163 ND ND ND ND 0.7887 ND 33,908 ND 1 249 ND ND ND ND 0.7887 ND 33,908 ND 1 249 ND ND ND ND 0.7887 ND 33,908 ND 1		139	2	QN	QN	Q	0.7887	Q	33,908	2	-	Q
122 ND ND ND ND O77887 ND 33,908 ND 1 181 ND ND ND ND 0,7887 ND 33,908 ND 1 181 ND ND ND ND 0,7887 ND 33,908 ND 1 128 A.772 2.541E-02 ND 0,7887 ND 33,908 ND 1 128 ND ND ND ND ND 0,7887 ND 33,908 ND 1 249 ND ND ND ND 0,7887 ND 33,908 ND 1 261 ND ND ND ND 0,7887 ND 33,908 ND 1 261 ND ND ND ND 0,7887 ND 33,908 ND 1 148 ND ND ND 0,7887 ND 33,908 ND 1	methane	173	2	Q	Q	9	0.7887	Q	33,908	Q	-	2
183		22,	2	2 2	ON S	2	0.7887	ON C	33,908	2		2
128 4.772 2.54Fe-02 ND 2.54Fe-02 0.7887 3.22E-02 35,908 6.820E-05 1 128 ND ND ND 0.7887 ND 33,908 ND 1 158 ND ND ND ND 0.7887 ND 33,908 ND 1 249 ND ND ND ND ND 0.7887 ND 33,908 ND 1 149 ND ND ND ND 0.7887 ND 33,908 ND 1 143 ND ND ND 0.7887 ND 33,908 ND 1 143 ND ND ND 0.7887 ND 33,908 ND 1 142 ND ND ND 0.7887 ND 33,908 ND 1 142 ND ND ND 0.7887 ND 33,908 ND 1 142 ND	90	2 2	2 2	O CN	S S	2 2	0.7887	2 2	33,908	2 2	- -	2 2
120 VITAL CONTROL ND ND CONTROL OTABRT ND STAND ND 1 163 ND ND ND 0.7887 ND 33,908 ND 1 249 ND ND ND 0.7887 ND 33,908 ND 1 249 ND ND ND ND 0.7887 ND 33,908 ND 1 149 ND ND ND ND ND 0.7887 ND 33,908 ND 1 143 ND ND ND ND 0.7887 ND 33,908 ND 1 142 ND ND ND ND 0.7887 ND 33,908 ND 1 142 ND ND ND ND 0.7887 ND 33,908 ND 1 143 ND ND ND 0.7887 ND 33,908 ND 1	0	200	277.8	2 541 5.00	2 2	25415.00	0.7007	00 3000 0	32,300	30 3000 3	-	30 300 8
163 ND ND ND 0.7887 ND 33,908 ND 1 249 ND ND ND 0,7887 ND 33,908 ND 1 249 ND ND ND ND 0,7887 ND 33,908 ND 1 149 ND ND ND ND ND 0,7887 ND 33,908 ND 1 143 ND ND ND ND 0,7887 ND 33,908 ND 1 162 ND ND ND 0,7887 ND 33,908 ND 1 142 1,580 9,332E-03 ND 0,7887 ND 33,908 ND 1 216 ND ND ND 0,7887 ND 33,908 ND 1 21 ND ND ND 0,7887 ND 33,908 ND 1 21 ND ND ND		128	GN	CN	2 5	ND ND	0.7887	ND	33 908	NO NO		NO CON
249 ND ND ND ND 0.7887 ND 33,908 ND 1 149 ND ND ND ND 0,7887 ND 33,908 ND 1 149 ND ND ND ND 0,7887 ND 33,908 ND 1 143 ND ND ND ND 0,7887 ND 33,908 ND 1 162 ND ND ND 0,7887 ND 33,908 ND 1 142 1,580 9,322E-03 0,7887 ND 33,908 ND 1 216 ND ND ND 0,7887 ND 33,908 ND 1 233 ND ND ND 0,7887 ND 33,908 ND 1 197 ND ND 0,7887 ND 33,908 ND 1		163	2	QN	QN	Q	0.7887	QN	33.908	Q		S
261 ND ND ND ND 0.7887 ND 33,908 ND 1 149 ND ND ND ND 0,7887 ND 33,908 ND 1 158 ND ND ND ND ND ND ND 1 162 ND ND ND 0,7887 ND 33,908 ND 1 142 1,580 9,32E-03 ND 0,7887 ND 33,908 ND 1 216 ND ND ND ND 0,7887 ND 33,908 ND 1 223 ND ND ND 0,7887 ND 33,908 ND 1 197 ND ND ND 0,7887 ND 33,908 ND 1		249	Q	QV	QV	9	0.7887	2	33,908	2	-	2
149 ND ND ND ND 0,7887 ND 33,908 ND 1 158 ND ND ND ND 0,7887 ND 33,908 ND 1 143 ND ND ND ND ND 0,7887 ND 33,908 ND 1 142 ND ND ND 0,7887 ND 33,908 ND 1 126 ND ND ND 0,7887 ND 33,908 ND 1 1273 ND ND ND 0,7887 ND 33,908 ND 1 137 ND ND ND 0,7887 ND 33,908 ND 1 197 ND ND ND 0,7887 ND 33,908 ND 1	6	261	Q	QN	QN	Q	0.7887	QN	33,908	QN	-	Q
158 ND ND ND ND 0.7887 ND 33,908 ND 1 143 ND ND ND ND 0.7887 ND 33,908 ND 1 162 ND ND ND ND 0.7887 ND 33,908 ND 1 142 1.580 9.332E-03 ND 9.332E-03 0.7887 1.183E-02 33,908 ND 1 123 ND ND ND 0.7887 ND ND ND 1 137 ND ND ND 0.7887 ND 33,908 ND 1 197 ND ND ND 0.7887 ND 33,908 ND 1	mine	149	Q	S	QN	Q	0.7887	QN	33,908	Q	-	Q
143 ND ND ND ND 0.7867 ND 33,908 ND 1 162 ND ND ND 0.7867 ND 33,908 ND 1 142 1.580 9.332E-03 ND ND ND ND 0.7887 ND 33,908 ND 1 ND ND ND ND 0.7887 ND 33,908 ND 1 ND ND ND ND 0.7887 ND 33,908 ND 1 197 ND ND ND 0.7887 ND 33,908 ND 1	amine	158	Q	Q.	QN	Q	0.7887	QN	33,908	QN	-	Q
162 ND ND ND ND 0.7887 ND 33,908 ND 1 142 1.580 9.32E-03 ND 0.7887 1.183E-02 33,908 2.505E-05 1 ND ND ND ND ND ND ND ND 1 ND ND ND ND 0.7887 ND 33,908 ND 1 ND ND ND ND 0.7887 ND 33,908 ND 1	lenol	143	QN	QN	QN	QN	0.7887	ŇD	33,908	QN		QN
142 1.580 9.332E-03 ND 9.332E-03 0.7887 1.183E-02 33,908 2.505E-05 1 216 ND ND ND ND 0.7887 ND 33,908 ND 1 273 ND ND ND ND 0.7887 ND 33,908 ND 1 197 ND ND ND 0.7887 ND 33,908 ND 1		162	QN	QN	QV	Q	0.7887	QV	33,908	QN	1	2
216 ND ND 0.7887 ND 33,908 ND 1 273 ND ND ND 0.7887 ND 33,908 ND 1 197 ND ND ND 0.7887 ND 33,908 ND 1		142	1.580		QN	9.332E-03	0.7887	1.183E-02	33,908	2.505E-05	1	2.505E-05
273 ND ND ND 0.7887 ND 33,908 ND 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	enzene	216	QN	ON	QN	QN	0.7887	QN	33,908	QN	1	ND
197 ND ND ND 0.7887 ND 33,908 ND 1	Itadiene	273	Q	QN	QN	QN	0.7887	QN	33,908	QN	1	QN
	75	197	Q	QN	ON	Q	0.7887	ON	33,908	ND	-	ON

TABLE A-11. AEC - SVOC RUN NO. 1 DATA FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1998)

	Molecular	Average Concentration -	Average Concentration -	Background + Concentration,	Background Corrected Concentration -	Dilution Correction	Corrected Concentration -	Initial Plume	Sample Total Material - Run	Number of	Corrected Emission Factor - Run
Compound 2 4 5-Trichlorophanol	weignt 197	Mun'i, ppov	Hun 1, mg/m	E GN	Hun 1, mg/m	Factor (b), %	∴ Kun 1, mg/m∵ NO	Volume, IT	η, ιο Σ	rems.	1, ib/item
sosafrole	162	2	2	20	Q Q	0.7887	CZ	33,908	2 2	- -	2 2
2-Chloronaphthalene	163	₽	2	Q	Q	0.7887	QN	33,908	2	-	2
2-Nitroaniline	138	S	Q	QN	R	0.7887	QN	33,908	2	-	2
1,4-Naphthoquinone	158	QN	9	QN	Q	0.7887	Q	33,908	Q	-	Q
Dimethylphthalate	194	QV	Q	QN	Ð	0.7887	QN	33,908	S	-	Q
1,3-Dinitrobenzene	168	Q	Q	QN	Q	0.7887	QN	33,908	Q	-	Q
2,6-Dinitrotoluene	182	2	9	QN	Q	0.7887	QV	33,908	₽	-	QN
Acenaphthylene	152	0.089	5.632E-04	QN	5.632E-04	0.7887	7.141E-04	33,908	1.512E-06	-	1.512E-06
3-Nitroaniline	138	Q	Q	QN	Q	0.7887	QN	33,908	Ð	-	Q
4-Nitrophenol	139	Q	Q	Q	QN	0.7887	QN	33,908	Q	-	Q
2,4-Dinitrophenol	184	2	Q	QN	Q	0.7887	QN	33,908	Q	-	Q
Acenaphthene	154	9	Q	QN	QN	0.7887	QN	33,908	Q	-	9
2,4-Dinitrotoluene	182	9	Q	S	Q	0.7887	QV	33,908	Q	-	Q
Dibenzofuran	168	S	Q	9	Q	0.7887	Q	33,908	₽	-	Q
Pentachlorobenzene	250	Q	9	QN	Q	0.7887	QN	33,908	Ð	-	2
I-Naphthylamine	143	QN	QN	QN	Q	0.7887	Q	33,908	QV	-	Q
2-Naphthylamine	143	QN	Q	Q	Q.	0.7887	Q	33,908	2	-	Q
,3,4,6-Tetrachlorophenol	232	QN	ND	QN	QN	0.7887	Q	33,908	2	-	9
Diethylphthalate	222	0.013	1.238E-04	2.247E-04	-1.009E-04	0.7887	ON	33,908	QN	-	QN
4-Chlorophenylphenyl ether	205	₽	Q	QN	Q	0.7887	QN	33,908	QN	1	QN
Fluorene	166	2	QN	QN	QN	0.7887	S	33,908	Q	-	QN
5-Nitro-o-toluidine	152	9	QV	QN	QN	0.7887	2	33,908	QN	-	QN
4-Nitroanline	138	QV.	Q	Q	Q	0.7887	2	33,908	Q	-	2
4,6-Unitro-z-methylphenol	198	2	Q.	2	Q	0.7887	Q	33,908	Q	-	Q
Cym-Trinitrobenzene	109	2 2	22	2 2	2 2	0.7887	2	33,908	2	-	2
Diellata	213	2 2		2 2		0.7887	2	33,908	2	-	2
Dhanacatio	170	2 2	ON CA	2 2		0.7887	2 2	33,908	2 5		2
4-Bromonhenvlohenvl ether	249	2 2	2 2	2 2	S CN	0.7887	2 2	33,908	2 2	- ,	2 2
Hexachlorobenzene	285	9	GN	2 2	2 2	0.7887	2 2	33 908	2 2	- -	2 2
4-Aminobiphenyl	169	9	Q	QN	CN	0.7887	SE	33 908	2	-	2 2
Pronamide	228	Ð	QN	QV	Q.	0.7887	2	33.908	QN	-	S
Pentachlorophenol	266	QV	QN	ND	QN	0.7887	9	33,908	Q.		2
Pentachloronitrobenzene	295	QN	DN	ND	QN	0.7887	Q	33,908	Q	-	Ð
Phenanthrene	178	0.041	3.035E-04	ON	3.035E-04	0.7887	3.849E-04	33,908	8.147E-07	-	8.147E-07
Anthracene	178	Q	QN	ND	QN	0.7887	QN	33,908	QN	-	Q
Carbazole	167	Q	QN	ND	S	0.7887	ON	33,908	QN	1	QN
Di-n-butyipntnalate	278	0.042	4.813E-04	1.615E-03	-1.134E-03	0.7887	Q	33,908	Q	1	QN
4-Nitroquinoline-1-oxide	200	2	Q	2	Q	0.7887	9	33,908	QN	-	Q
ivieti iapynierie	10,2	2	Q I	QN	Q	0.7887	2	33,908	QN	-	Q
riudiani	707	2	Q.	QN	Q	0.7887	2	33,908	Q	-	2
Director	5 5	2 5	2	2	Q !	0.7887	QN .	33,908	2	+	2
ryteire D.Dimethylamicoszoborzono	202	2 2	2 2	2	2	0.7887	2	33,908	2	-	2
Chlorobenzilate	325	2 2	2 2	2 2	2 2	0.7887	2 2	83,908	2 2	-	2
Kepone	491	Q	Q	S	2 2	0.7887	2 2	33 908	2 2	-	2 2
Butylbenzylphthalate	312	QN	Q	2	Q.	0.7887	Q	33.908	Q	-	Q
3,3'-Dimethylbenzidine	212	Q	Q	9	S	0.7887	CN	33 908	2	-	
O Acceptanting 61 . Caree	000				2				2	-	2

TABLE A-11. AEC - SVOC RUN NO. 1 DATA FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1998)

Molecular Concentration Initial Plume Material - Run Initial Plume Initial Plume Initial Plume												
Moleculer Concentration- Initial Plume, ff 1, lb Items Items pound Weight Run 1, mg/m³ Fator (b), % Run 1, mg/m³ Items 1, lb Items late 391 ND ND ND 0.7887 ND 33,908 ND 1 228 ND ND ND ND ND 0.7887 ND 33,908 ND 1 228 ND ND ND ND ND 0.7887 ND 33,908 ND 1 (a) 256 ND ND ND ND ND 0.7887 ND 33,908 ND 1 (a) 252 ND ND ND ND ND 0.7887 ND 33,908 ND 1 <th></th> <th></th> <th>Average</th> <th>Average</th> <th>Background -</th> <th>Corrected</th> <th>Dilution</th> <th>Corrected</th> <th></th> <th>Sample Total</th> <th></th> <th>Emission</th>			Average	Average	Background -	Corrected	Dilution	Corrected		Sample Total		Emission
Idea 391 ND ND ND ND 0.7887 ND 33,908 ND 1 228 ND ND ND 0.7887 ND 33,908 ND 1 228 ND ND ND ND ND 0.7887 ND 33,908 ND 1 40 228 ND ND ND ND ND 0.7887 ND 33,908 ND 1 mithracene 256 ND ND ND ND 0.7887 ND 33,908 ND 1 (a) 252 ND ND ND ND 0.7887 ND 33,908 ND 1 (a) 252 ND ND ND ND 0.7887 ND 33,908 ND 1 (a) 252 ND ND ND ND 0.7887 ND 33,908 ND 1 (a) 258 ND	pulled in the second of the se	Molecular	Concentration -	Concentration - Run 1. mc/m³	Concentration, ma/m³	Concentration - Run 1. ma/m²	Correction Factor (b). %	Concentration - Run 1, mg/m³	Initial Plume Volume, ft³	Material - Run 1, lb	Number of Items	Factor - Run 1, lb/item
253 ND ND ND ND 0,7887 ND 33,908 ND 1 228 ND ND ND ND 0,7887 ND 33,908 ND 1 MITHRACENE 228 ND ND ND ND 0,7887 ND 33,908 ND 1 MITHRACENE 256 ND ND ND ND 0,7887 ND 33,908 ND 1 (a) 252 ND ND ND ND 0,7887 ND 33,908 ND 1 (a) 252 ND ND ND 0,7887 ND 33,908 ND 1 (a) 252 ND ND ND ND 0,7887 ND 33,908 ND 1 (a) 252 ND ND ND ND 0,7887 ND 33,908 ND 1 (a) 258 ND ND ND <td>s/2-Ethylhexyl)phthalate</td> <td>391</td> <td>QN</td> <td>QV</td> <td>QN</td> <td>QN</td> <td>0.7887</td> <td>QN</td> <td>33,908</td> <td>QN</td> <td>1</td> <td>ND</td>	s/2-Ethylhexyl)phthalate	391	QN	QV	QN	QN	0.7887	QN	33,908	QN	1	ND
228 ND ND ND ND 0,7887 ND 33,908 ND 1 228 ND ND ND ND ND ND ND 1 43 256 ND ND ND ND ND ND 1 (a) 252 ND ND ND ND ND ND ND 1 (a) 252 ND ND ND ND 0.7887 ND 33,908 ND 1 (a) 252 ND ND ND ND 0.7887 ND 33,908 ND 1 (a) 252 ND ND ND ND 0.7887 ND 33,908 ND 1 (a) 268 ND ND ND 0.7887 ND 33,908 ND 1 (a) 276 ND ND ND 0.7887 ND 33,908 ND 1	3-Dichlorobenzidine	253	2	QN	QN	Q	0.7887	QV	33,908	QN	1	ND
Signature Sign	enz(a)anthracene	228	QN	QV	Q	Q	0.7887	QN	33,908	ND	1	ND
31 ND ND ND 0.7887 ND 33,908 ND 1 All Infracence 256 ND ND ND ND 0.7887 ND 33,908 ND 1 a) 252 ND ND ND ND ND ND 0.7887 ND 33,908 ND 1 a) 252 ND ND ND ND ND 0.7887 ND 33,908 ND 1 b 252 ND ND ND ND 0.7887 ND 33,908 ND 1 b 252 ND ND ND ND 0.7887 ND 33,908 ND 1 b ND ND ND ND 0.7887 ND 33,908 ND 1 c 276 ND ND ND 0.7887 ND 33,908 ND 1 c 276 ND N	nrysene	228	QN	QV	S	Q	0.7887	QN	33,908	QN	1	QN
14th access 256 ND ND ND ND 0.7887 ND 33,908 ND 1 a) 252 ND ND ND 0.7887 ND 33,908 ND 1 a) 252 ND ND ND ND ND ND 1 b 252 ND ND ND ND ND ND 1 n 252 ND ND ND ND ND 1 ND n 252 ND ND ND ND 0.7887 ND 33,908 ND 1 n 276 ND ND ND 0.7887 ND 33,908 ND 1 n 276 ND ND ND 0.7887 ND 33,908 ND 1 n 276 ND ND ND 0.7887 ND 33,908 ND 1 n 27	-n-octylphthalate	391	Q	QN	2	QV	0.7887	QN	33,908	ND	1	2
a) 252 ND ND ND 0.7887 ND 33,908 ND 1 a) 252 ND ND ND 0.7887 ND 33,908 ND 1 x 252 ND ND ND ND 0.7887 ND 33,908 ND 1 x 258 ND ND ND ND ND ND 1 ND 1 x x x x x x x x x x x x x x x </td <td>12-Dimethylbenz(a)anthracene</td> <td>256</td> <td>Q</td> <td>QN</td> <td>Q</td> <td>Q</td> <td>0.7887</td> <td>QN</td> <td>33,908</td> <td>QN</td> <td>1</td> <td>QN</td>	12-Dimethylbenz(a)anthracene	256	Q	QN	Q	Q	0.7887	QN	33,908	QN	1	QN
a) 252 ND ND ND ND ND 0.7887 ND 33,908 ND 1 252 ND ND ND ND 0.7887 ND 33,908 ND 1 268 ND ND ND ND ND ND 1 ND 1 1 ND ND ND ND ND ND 1 ND 1 276 ND ND ND ND ND 0.7887 ND 33,908 ND 1 276 ND ND ND ND 0.7887 ND 33,908 ND 1	enzo(b)fluoranthene (a)	252	Q	QN	Q	Q	0.7887	QN	33,908	QN	1	QN
252 ND ND ND 0.7887 ND 33,908 ND 1 268 ND ND ND ND 0.7887 ND 33,908 ND 1 276 ND ND ND ND ND ND 1 ND 1 276 ND ND ND ND ND ND ND 1 ND 1 276 ND ND ND ND ND ND ND 1 ND 1	enzo(k)fluoranthene (a)	252	QN	Q	9	Q	0.7887	QN	33,908	ON	1	Q
268 ND ND ND O.7887 ND 33,908 ND 1 776 ND ND ND ND 0.7887 ND 33,908 ND 1 778 ND ND ND ND 1 ND 1 778 ND ND ND ND 1 ND 1	enz(a)pyrene	252	Q	QN	QV	QV	0.7887	ND	33,908	QN	1	QN
276 ND ND ND O.7887 ND 33,908 ND 1 278 ND ND ND ND 0.7887 ND 33,908 ND 1 276 ND ND ND ND ND 1 ND 1	Methylcholanthrene	268	QN	Q	Q	Q	0.7887	QN	33,908	QN	1	ND
23,908 ND ND ND 0.7887 ND 33,908 ND 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	deno(1,2,3-cd)pvrene	276	QN	Q	Q	Q	0.7887	QN	33,908	QN	1	QN
276 ND ND ND ND 0.7867 ND 33,908	ibenz(a,h)anthracene	278	Q	Q	Q	QN	0.7887	QN	33,908	ON	1	QN
	enzo(g,h,i)perylene	276	QN	Q	QN	QN	0.7887	QN	33,908	QN	1	Q

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers. b Estimated from tracer data as presented in Volume IV.

TABLE A-12. AEC - SVOC RUN NO. 2 DATA FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1998)

NO	Compound	Molecular Weight	Average Concentration - Run 2, ppbv	Average Concentration - Run 2, mg/m³	Background • Concentration, mg/m³	Background Corrected Concentration	Dilution Correction Factor (b), %	Corrected Concentration Run 2, mg/m²	initial Plume Volume, ft	Sample Total Material - Run 2, Ib	Number of Items	Corrected Emission Factor - Run 2, lb/item
13	Particulate/Vanor-nhase SVOCs											
150 NO NO NO NO NO NO NO N	N-Nitrosodimethylamine	74	S	QN	CN	CN	0 0460	2	24.400	24	•	Ş
100 NO NO NO NO NO NO 0.8469 NO 0.8469	Pyridine	79	Q	9	2 5	28	0.8469	2 2	34,499	2 2	- -	2 2
12	2-Picoline	93	Q	2	200	QN	0.8469	S	34 499	2 5		2 2
192	Methyl methanesulfonate	110	Q.	2	2	Q	0.8469	2	34 499	S	-	2 2
102 ND ND ND ND ND ND ND O 56459 ND O 54459 ND O 54459	N-Nitrosomethylethylamine	88	QN	2	2	2	0.8469	2	34 499	G	-	Ę
124 ND ND ND ND ND O 68469 ND 34,459 143 ND ND ND ND ND O 68469 ND 34,459 143 ND ND ND ND ND O 68469 ND 34,459 143 ND ND ND ND ND O 68469 ND 34,459 144 ND ND ND ND ND O 68469 ND 34,459 145 ND ND ND ND O 68469 ND 34,459 145 ND ND ND ND ND O 68469 ND 34,459 145 ND ND ND ND ND O 68469 ND 34,459 145 ND ND ND ND ND O 68469 ND 34,459 145 ND ND ND ND ND O 68469 ND 34,459 145 ND ND ND ND ND O 68469 ND 34,459 145 ND ND ND ND ND O 68469 ND 34,459 145 ND ND ND ND ND O 68469 ND 34,459	N-Nitrosodiethylamine	102	QN	Q	S	2	0.8469	2	34.499	Q		S
143 ND ND ND ND ND O 08469 ND 08449 ND 04449 ND ND ND ND O 08469 ND 08449 ND 04449 ND ND ND ND ND ND 04449 ND 04449 ND 04449 ND ND ND ND 04449 ND ND 04449 ND ND ND 04449 ND 04449 ND 04449 ND 04449 ND ND ND ND ND ND ND N	Ethyl methanesulfonate	124	QN	Q	Ð	2	0.8469	Q	34 499	GN	-	S
143	Phenol .	94	QN	g	QN	Q	0.8469	2	34.499	2	-	Q
143 ND ND ND ND ND O 68469 ND 34,4499 147 ND ND ND ND ND O 68469 ND 34,4499 147 ND ND ND ND ND O 68469 ND 34,4499 148 ND ND ND ND ND O 68469 ND 34,4399 149 ND ND ND ND ND O 68469 ND 34,4399 141 ND ND ND ND ND O 68469 ND 34,4399 142 ND ND ND ND ND O 68469 ND 34,4399 143 ND ND ND ND O 68469 ND 34,4399 144 ND ND ND ND O 68469 ND 34,4399 145 ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND ND O 68469 ND 34,4399 150 ND ND ND ND ND O 68469 ND 34,4399	Aniline	93	QN	QN	Q	QV	0.8469	QN	34,499	Q	-	9
202 ND ND ND ND 0.0 8469 ND 34,459 129 ND ND ND ND ND 0.0 6469 ND 34,459 147 ND ND ND ND ND ND 34,459 147 ND ND ND ND ND 0.0 8469 ND 34,459 147 ND ND ND ND ND 0.0 8469 ND 34,459 147 ND ND ND ND ND ND 0.0 8469 ND 34,459 147 ND ND ND ND ND 0.0 8469 ND 34,459 140 ND ND ND ND ND ND 0.0 8469 ND 34,459 147 ND ND ND ND ND ND 0.0 8469 ND 34,459 1104 ND ND ND ND ND <	bis(2-Chloroethyl)ether	143	QN	QN	QN	QN	0.8469	2	34,499	QN	1	Q
129 ND ND ND ND O.04669 ND 34,439 147 ND ND ND ND ND ND O.04669 ND 34,439 147 ND ND ND ND ND O.04669 ND 34,439 147 ND ND ND ND ND O.04669 ND 34,439 147 ND ND ND ND O.04669 ND 34,439 147 ND ND ND ND O.04669 ND 34,439 147 ND ND ND ND O.04669 ND 34,439 150 ND ND ND ND ND O.04669 ND 34,439 150 ND ND ND ND ND O.04669 ND 34,439 150 ND ND ND ND ND O.04669 ND 34,439 150 ND ND ND ND ND O.04669 ND 34,439 150 ND ND ND ND ND O.04669 ND 34,439 150 ND ND ND ND ND O.04669 ND 34,439 150 ND ND ND ND ND O.04669 ND 34,439 150 ND ND ND ND ND O.04669 ND 34,439 150 ND ND ND ND ND O.04669 ND 34,439 150 ND ND ND ND ND O.04669 ND 34,439 150 ND ND ND ND ND O.04669 ND 34,439 150 ND ND ND ND ND O.04669 ND 34,439 150 ND ND ND ND ND O.04669 ND 34,439 150 ND ND ND ND ND O.04669 ND 34,439 150 ND ND ND ND ND O.04669 ND 34,439 150 ND ND ND ND ND O.04669 ND 34,439 150 ND ND ND ND ND O.04669 ND 34,439 150 ND ND ND ND ND O.04669 ND 34,439 150 ND ND ND ND ND O.04669 ND 34,439 150	Pentachloroethane	202	QN	QN	ND	QN	0.8469	Q	34,499	Q	-	Q
147 ND ND ND 0.8469 ND 34,499 106 ND ND ND 0.8469 ND 34,499 106 ND ND ND ND 0.8469 ND 34,499 117 ND ND ND ND 0.8469 ND 34,499 117 ND ND ND ND 0.8469 ND 34,499 117 ND ND ND ND 0.8469 ND 34,499 110 ND ND ND ND 0.8469 ND 34,499 110 ND ND ND ND ND 0.8469 ND 34,499 110 ND	2-Chlorophenol	129	QN	QN	QN	QN	0.8469	QN	34,499	S	1	QN
147 ND ND ND ND 0.8469 ND 34,499 108 ND ND ND ND ND 0.8469 ND 34,499 147 ND ND ND ND 0.8469 ND 34,499 147 ND ND ND ND 0.8469 ND 34,499 147 ND ND ND ND 0.8469 ND 34,499 150 ND ND ND ND ND 0.8469 ND 34,499 150 ND ND ND ND ND 0.8469 ND 34,499 150 ND ND ND ND ND 0.8469 ND 34,499 150 ND ND ND ND ND 0.8469 ND 34,499 150 ND ND ND ND ND 0.8469 ND 34,499 150 ND ND ND ND ND 0.8469 ND 34,499 150 ND ND ND ND ND 0.8469 ND 34,499 151 ND ND ND ND ND 0.8469 ND 34,499 152 ND ND ND ND ND 0.8469 ND 34,499 152 ND ND ND ND ND 0.8469 ND 34,499 153 ND ND ND ND ND 0.8469 ND 34,499 154 ND ND ND ND ND 0.8469 ND 34,499 152 ND ND ND ND ND 0.8469 ND 34,499 153 ND ND ND ND ND 0.8469 ND 34,499 154 ND ND ND ND ND 0.8469 ND 34,499 155 ND ND ND ND ND 0.8469 ND 34,499 155 ND ND ND ND ND 0.8469 ND 34,499 154 ND ND ND ND ND 0.8469 ND 34,499 155 ND ND ND ND ND 0.8469 ND 34,499 155 ND ND ND ND ND 0.8469 ND 34,499 156 ND ND ND ND ND 0.8469 ND 34,499 157 ND ND ND ND ND 0.8469 ND 34,499 158 ND ND ND ND ND 0.8469 ND 34,499 158 ND ND ND ND ND 0.8469 ND 34,499 158 ND ND ND ND ND 0.8469 ND 34,499 159 ND ND ND ND ND 0.8469 ND 34,499 150 ND ND ND ND 0.8469 ND 34,499 151 ND ND ND ND ND 0.8469 ND 34,499 152 ND ND ND ND 0.8469 ND 34,499 153 ND ND ND ND 0.8469 ND 34,499 154 ND ND ND ND 0.8469 ND 34,499 155 ND ND ND ND 0.8469 ND 34,499 155 ND ND N	1,3-Dichlorobenzene	147	QN	Q	Q	QN	0.8469	QN	34,499	QN	1	2
100 ND ND ND ND ND 0.8459 ND 34,499	1,4-Dichlorobenzene	147	Q	QN	Q	Q	0.8469	Q	34,499	QN	1	ND
177 ND ND ND ND ND 0,0469 ND 34,499 171 ND ND ND ND ND ND 0,0469 ND 34,499 172 ND ND ND ND ND 0,0469 ND 34,499 120 ND ND ND ND ND 0,0469 ND 34,499 120 ND ND ND ND ND 0,0469 ND 34,499 120 ND ND ND ND ND 0,0469 ND 34,499 120 ND ND ND ND ND 0,0469 ND 34,499 121 ND ND ND ND ND 0,0469 ND 34,499 122 ND ND ND ND ND 0,0469 ND 34,499 123 ND ND ND ND ND 0,0469 ND 34,499 124 ND ND ND ND ND 0,0469 ND 34,499 125 ND ND ND ND ND 0,0469 ND 34,499 126 ND ND ND ND ND 0,0469 ND 34,499 127 ND ND ND ND ND 0,0469 ND 34,499 128 ND ND ND ND ND 0,0469 ND 34,499 129 ND ND ND ND ND 0,0469 ND 34,499 120 ND ND ND ND ND 0,0469 ND 34,499 121 ND ND ND ND ND 0,0469 ND 34,499 122 ND ND ND ND ND 0,0469 ND 34,499 123 ND ND ND ND ND 0,0469 ND 34,499 124 ND ND ND ND ND 0,0469 ND 34,499 125 ND ND ND ND ND 0,0469 ND 34,499 126 ND ND ND ND ND 0,0469 ND 34,499 127 ND ND ND ND ND 0,0469 ND 34,499 128 ND ND ND ND ND 0,0469 ND 34,499 129 ND ND ND ND ND 0,0469 ND 34,499 120 ND ND ND ND ND 0,0469 ND 34,499 121 ND ND ND ND ND 0,0469 ND 34,499 122 ND ND ND ND ND 0,0469 ND 34,499 123 ND ND ND ND ND 0,0469 ND 34,499 124 ND ND ND ND ND 0,0469 ND 34,499 125 ND ND ND ND ND 0,0469 ND 34,499 126 ND ND ND ND ND 0,0469 ND 34,499 127 ND ND ND ND ND 0,0469 ND 34,499 128 ND ND ND ND ND 0,0469 ND 34,499 129 ND ND ND ND ND ND 0,0469 ND 34,499 120 ND ND ND	Benzyl alcohol	108	QN	Q	2	Q	0.8469	ND	34,499	QN	1	QN
147 NU	Z-Methylphenol	90 !	Q	2	Q	QN	0.8469	Ņ	34,499	ND	1	ND
17.1 ND	1,2-Ucnioropenzene	147	Q !	2	Q	Q	0.8469	Q	34,499	Q	1	ND
role 107 N.D. N.D. N.D. N.D. N.D. O.8469 N.D. 34,499 1130 N.D. N.D. N.D. N.D. N.D. N.D. N.D. 0.8469 N.D. 34,499 1130 N.D. N.D. N.D. N.D. N.D. N.D. 0.8469 N.D. 34,499 116 N.D. N.D. N.D. N.D. N.D. 0.8469 N.D. 34,499 116 N.D. N.D. N.D. N.D. N.D. 0.8469 N.D. 34,499 117 N.D. N.D. N.D. N.D. N.D. 0.8469 N.D. 34,499 117 N.D. N.D. N.D. N.D. N.D. 0.8469 N.D. 34,499 112 N.D. N.D. N.D. N.D. N.D. 0.8469 N.D. 34,499 112 N.D. N.D. N.D. N.D. N.D. 0.8469 N.D.	DIS(Z-Criororsopropyr)erner	5/5	Q .	Q	2	Q	0.8469	Q	34,499	Q	-	Q
108	0-1 oluldine	70,	CN C	QN	2	2	0.8469	QN	34,499	Q	1	ND
130	4-tweirlyiphenoi/3-methylphenoi	80.	811.0	5.304E-04	2	304E	0.8469	6.263E-04	34,499	1.349E-06	1	1.349E-06
120 ND ND 1,76BE-04 ND 0.8469 ND 34,499 116 ND ND ND ND ND 0.8469 ND 34,499 100 ND ND ND ND ND 0.8469 ND 34,499 123 ND ND ND ND ND 0.8469 ND 34,499 124 ND ND ND ND ND 0.8469 ND 34,499 124 ND ND ND ND 0.8469 ND 34,499 124 ND ND	A Colombia C	30	2	QN S	Q	2	0.8469	S	34,499	Q	1	ND
100 ND ND ND ND 0.03659 ND 34,499 123 ND ND ND ND 0.04669 ND 34,499 114 ND ND ND ND 0.04669 ND 34,499 138 ND ND ND ND 0.04669 ND 34,499 138 ND ND ND ND 0.0469 ND 34,499 139 ND ND ND ND 0.0469 ND 34,499 130 ND ND ND ND 0.0469 ND 34,499 131 ND ND ND ND 0.0469 ND 34,499 132 ND ND ND ND 0.0469 ND 34,499 143 ND ND ND ND 0.0469 ND 34,499 144 ND ND ND ND 0.0469 ND 34,499 145 ND ND ND ND 0.0469 ND 34,499 145 ND ND ND ND ND 0.0469 ND 34,499 145 ND ND ND ND ND 0.0469 ND 34,499 145 ND ND ND ND ND 0.0469 ND 34,499 145 ND ND ND ND ND 0.0469 ND 34,499 145 ND ND ND ND ND 0.0469 ND 34,499 145 ND ND ND ND ND 0.0469 ND 34,499 145 ND ND ND ND ND 0.0469 ND 34,499 145 ND ND ND ND ND 0.0469 ND 34,499 145 ND ND ND ND ND 0.0469 ND 34,499 145 ND ND ND ND ND 0.0469 ND 34,499 145 ND ND ND ND ND 0.0469 ND 34,499 145 ND ND ND ND ND 0.0469 ND 34,499 145 ND ND ND ND ND 0.0469 ND 34,499 145 ND ND ND ND 0.0469 ND 34,499 145 ND ND ND ND ND 0.0469	N-Nitrosomorpholipa	116	22	22	1./86E-04	2	0.8469	Q	34,499	2	-	2
2.57 ND ND ND ND 0.8469 ND 34,499 123 ND ND ND ND 0.8469 ND 34,499 123 ND ND ND ND ND ND 34,499 114 ND ND ND ND ND 0.8469 ND 34,499 122 ND ND ND ND ND 0.8469 ND 34,499 133 ND ND ND ND 0.8469 ND 34,499 122 ND ND ND 0.8469 ND 34,499 143 ND ND ND 0.8469 ND 34,499 152 ND ND ND ND 0.8469 ND 34,499 163 ND ND ND ND 0.8469 ND 34,499 163 ND ND ND ND ND 0.8469 N	N-Nitrosopyrolidine	2 5	22	22	2 2	2	0.8469	2	34,499	QN S		2
123 ND ND ND ND 0.8469 ND 34,489 113 ND ND ND ND 0.8469 ND 34,489 113 ND ND ND ND 0.8469 ND 34,489 138 ND ND ND ND 0.8469 ND 34,489 139 ND ND ND ND 0.8469 ND 34,489 130 ND ND ND ND 0.8469 ND 34,489 122 ND ND ND ND 0.8469 ND 34,489 122 ND ND ND ND 0.8469 ND 34,489 122 ND ND ND ND 0.8469 ND 34,489 181 ND ND ND ND 0.8469 ND 34,489 182 ND ND ND ND 0.8469 ND <t< td=""><td>Heyachloroethane</td><td>202</td><td>2 2</td><td>2 5</td><td>2</td><td>2</td><td>0.8469</td><td>2</td><td>34,499</td><td>Q</td><td>-</td><td>2</td></t<>	Heyachloroethane	202	2 2	2 5	2	2	0.8469	2	34,499	Q	-	2
12	Nitrohanzana	103	22	25	2 2	2 2	0.8469	2	34,499	2	-	2
138	N-Nitrosoniperidipe	21.5	2 5	ON CA	2 2	2 2	0.8469	2	34,499			Q
122 ND ND ND ND 0.8469 ND 34,439 139 ND ND ND 0.8469 ND 34,439 139 ND ND ND ND 0.8469 ND 34,439 122 ND ND ND ND ND 0.8469 ND 34,439 122 ND ND ND ND ND 0.8469 ND 34,439 163 ND ND ND ND 0.8469 ND 34,439 128 ND ND ND ND 0.8469 ND 34,439 128 ND ND ND ND 0.8469 ND 34,439 163 ND ND ND ND ND 0.8469 ND 34,439 178 ND ND ND ND ND 0.8469 ND 34,439 184 ND ND ND ND	Isophorone	138	2 2	2 2	2 2	2 2	0.8409	2 2	34,499	2		2
139 ND ND ND 0.8469 ND 34,499 173 ND ND ND 0.8469 ND 34,499 122 ND ND ND ND 0.8469 ND 34,499 163 ND ND ND ND 0.8469 ND 34,499 181 ND ND ND ND 0.8469 ND 34,499 128 3.666 1.952E-02 ND ND 0.8469 ND 34,499 128 ND ND ND 0.8469 ND 34,499 163 ND ND ND 0.8469 ND 34,499 163 ND ND ND ND 0.8469 ND 34,499 173 ND ND ND ND 0.8469 ND 34,499 184 ND ND ND ND 0.8469 ND 34,499 184 ND </td <td>2,4-Dimethylphenol</td> <td>122</td> <td>Q</td> <td>S</td> <td>2 5</td> <td>2 2</td> <td>0.0409</td> <td>2 2</td> <td>34,499</td> <td>22</td> <td></td> <td>2 2</td>	2,4-Dimethylphenol	122	Q	S	2 5	2 2	0.0409	2 2	34,499	22		2 2
173 ND ND ND ND 0.8469 ND 34,499 163 ND ND ND 0.8469 ND 34,499 163 ND ND ND ND 0.8469 ND 34,499 181 ND ND ND ND 0.8469 ND 34,499 128 3.666 1.952E-02 ND ND ND 0.8469 ND 34,499 128 ND ND ND ND ND 0.8469 ND 34,499 163 ND ND ND ND 0.8469 ND 34,499 163 ND ND ND ND ND 0.8469 ND 34,499 173 ND ND ND ND ND 0.8469 ND 34,499 143 ND ND ND ND 0.8469 ND 34,499 145 ND ND ND	2-Nitrophenol	139	Q.	QN	9	2	0.8469	CN	34 499	CN.	-	2 5
122 ND ND ND ND ND ND 34,499 163 ND ND ND ND ND 34,499 ND 34,499 181 ND ND ND ND ND 34,499 ND 34,499 128 3.666 1.952E-02 ND ND ND ND 34,499 128 ND ND ND ND ND ND 34,499 128 ND ND ND ND ND 0.8469 ND 34,499 163 ND ND ND ND ND 0.8469 ND 34,499 173 ND ND ND ND ND 0.8469 ND 34,499 162 ND ND ND ND ND 0.8469 ND 34,499 162 ND ND ND ND 0.8469 ND 34,499 162 ND </td <td>bis(2-Chloroethoxy)methane</td> <td>173</td> <td>ND</td> <td>QN</td> <td>Ð</td> <td>Q</td> <td>0.8469</td> <td>QN</td> <td>34,499</td> <td>2</td> <td>-</td> <td>2</td>	bis(2-Chloroethoxy)methane	173	ND	QN	Ð	Q	0.8469	QN	34,499	2	-	2
163 ND ND ND ND ND 34,499 181 ND ND ND ND 0.8469 ND 34,499 128 3.666 1.932E-02 ND 1.952E-02 ND 34,499 34,499 128 ND ND ND ND ND ND 34,499 163 ND ND ND ND ND ND 34,499 249 ND ND ND ND ND 34,499 ND 249 ND ND ND ND ND 34,499 ND 249 ND ND ND ND ND 0.8469 ND 34,499 143 ND ND ND ND ND 0.8469 ND 34,499 142 ND ND ND ND ND 0.8469 ND 34,499 142 ND ND ND ND 0.846	Benzoic acid	122	ON	QN	ON	ON	0.8469	QN	34,499	QN	-	QN
181 ND ND ND ND 0.8469 ND 34,499 128 3.666 1.952E-02 ND 1.952E-02 0.8469 2.305E-02 34,499 128 ND ND ND ND ND 0.8469 ND 34,499 163 ND ND ND ND ND 0.8469 ND 34,499 249 ND ND ND ND ND 0.8469 ND 34,499 261 ND ND ND ND ND 0.8469 ND 34,499 149 ND ND ND ND 0.8469 ND 34,499 142 ND ND ND ND ND 34,499 142 ND ND ND 0.8469 ND 34,499 216 ND ND ND ND 0.8469 ND 34,499 210 ND ND ND 0.	2,4-Dichlorophenol	163	NO NO	QN	QN	Q	0.8469	ND	34,499	QN	-	Q
128 3.666 1.95E-02 ND 1.952E-02 0.8469 2.305E-02 34,499 128 ND ND ND ND ND 0.8469 ND 34,499 163 ND ND ND ND ND 34,499 ND 34,499 249 ND ND ND ND ND 0.8469 ND 34,499 261 ND ND ND ND ND 0.8469 ND 34,499 149 ND ND ND ND 0.8469 ND 34,499 142 ND ND ND ND ND 34,499 142 ND ND ND 0.8469 ND 34,499 142 ND ND ND ND 0.8469 ND 34,499 216 ND ND ND ND 0.8469 ND 34,499 216 ND ND ND 0.8	1,2,4-1 nchlorobenzene	181	Q	Q	Q	Q	0.8469	QN	34,499	QN	1	QN
128 ND ND ND ND 0.8469 ND 34,499 163 ND ND ND ND 0.8469 ND 34,499 249 ND ND ND ND 0.8469 ND 34,499 249 ND ND ND ND 0.8469 ND 34,499 149 ND ND ND ND ND 34,499 143 ND ND ND ND 34,499 162 ND ND ND 0.8469 ND 34,499 162 ND ND ND ND 34,499 ND 34,499 162 ND ND ND ND ND 34,499 ND 34,499 142 1.709 1.016=02 ND 1.016=02 0.8469 ND 34,499 273 ND ND ND 0.8469 ND 34,499 1439 ND <td>Chimarene</td> <td>128</td> <td>3.666</td> <td>1.952E-02</td> <td>9</td> <td>1.952E-02</td> <td>0.8469</td> <td>2.305E-02</td> <td>34,499</td> <td>4.965E-05</td> <td>1</td> <td>4.965E-05</td>	Chimarene	128	3.666	1.952E-02	9	1.952E-02	0.8469	2.305E-02	34,499	4.965E-05	1	4.965E-05
163 ND ND ND ND ND 0.8469 ND 34,499 261 ND ND ND 0.8469 ND 34,499 149 ND ND ND 0.8469 ND 34,499 143 ND ND ND ND 34,499 ND 34,499 162 ND ND ND ND ND 34,499 ND 34,499 162 ND ND ND ND ND ND 34,499 162 ND ND ND ND ND 34,499 162 ND ND ND ND 34,499 142 1.709 1.016=02 ND 1.016=02 34,499 216 ND ND ND ND 34,499 273 ND ND ND 0.8469 ND 34,499	2 & Dicklessaphone	128	2	2 2	2	Q	0.8469	Q	34,499	Q	-	Q
243 ND ND ND ND 0.8469 ND 34,499 149 ND ND ND ND 0.8469 ND 34,499 158 ND ND ND ND 0.8469 ND 34,499 143 ND ND ND ND 0.8469 ND 34,499 162 ND ND ND ND 0.8469 ND 34,499 162 ND ND ND ND 0.8469 ND 34,499 170 1.709 1.0166-02 ND 1.0106-02 0.8469 1.192E-02 34,499 216 ND ND ND ND 0.8469 ND 34,499 273 ND ND ND ND 0.8469 ND 34,499	Heyachloronropene	103	28	2 2	2	2	0.8469	Q	34,499	2	-	2
143 ND ND ND ND 0.8469 ND 34,499 158 ND ND ND ND 0.8469 ND 34,499 143 ND ND ND ND 0.8469 ND 34,499 162 ND ND ND ND 0.8469 ND 34,499 142 1.709 1.010E-02 ND 1.010E-02 0.8469 ND 34,499 216 ND ND ND 0.8469 ND 34,499 273 ND ND ND 0.8469 ND 34,499	Hovachlorohitadiana	54.3	2 2	2 2	2 5	2	0.8469	2	34,499	2	-	Q
143 ND ND ND ND ND 34,499 158 ND ND ND 0.8469 ND 34,499 162 ND ND ND ND 0.8469 ND 34,499 142 1.709 1.010E-02 ND 1.010E-02 0.8469 ND 34,499 216 ND ND ND ND 0.8469 ND 34,499 273 ND ND ND 0.8469 ND 34,499 ND ND ND 0.8469 ND 34,499	Dimethylohonothylomine	102	200		2	2	0.8469	Q!	34,499	2	-	2
142 ND ND ND ND 0.8469 ND 34,499 ND 1,010E-02 ND 0.8469 ND 34,499 ND 1,010E-02 ND ND ND ND ND ND ND N	N-Nitroso-di-o-butylamina	143	2 2		2	2	0.8469	2	34,499	2	-	2
162 ND ND ND ND 0.8469 ND 34,499 ND 1,010E-02 0.8469 ND 34,499 ND ND ND ND ND ND ND	4-Chloro-3-methylphenol	143	2 2	2 2	2 9	2	0.8469	2	34,499	2	-	Q
1.00	Safrole	163	2 2	2 2	Q.	2	0.8469	2	34,499	2	-	Q
216 ND ND ND ND 0.8469 ND 34,499 273 ND ND ND ND 0.8469 ND 34,499	2-Methylnaphthalene	142	1 700	1 040 0	2 4	001010	0.8469	200,	34,499	ON LOCAL		QN
273 ND ND ND 0.8469 ND 34,499	1,2,4,5-Tetrachlorobenzene	216	S C N	NO OK	2 2	1.010E-02	0.8469	1.19ZE-0Z	34,499		-	2.568E-05
100 CO400	Hexachlorocyclopentadiene	273	Ç	2	2 2	2 2	0.0403	2 2	04,499	2 2	- ,	2
		,		2	Q.	Q.	0.0409	2	34,439	2	-	2

TABLE A-12. AEC - SVOC RUN NO. 2 DATA FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1998)

Compound 2.4.6-Trichlorophenol 2.4.5-Trichlorophenol Isosafrole Isosafrole 2-Chloronaphthalene 2-Nitroanline 1.4-Naphthoguinone		Average	Average	Background -	Background Corrected	Dilution	Corrected	Plant Plant	Sample Total	, september 1	Corrected Emission
2.4.6-Trichlorophenol 2.4.5-Trichlorophenol Isosafrole 2Chloronaphthalene 2-Nitroanitine 1.4-Naphthoquinone	Weight	Concentration - Run 2, ppbv	Run 2, mg/m³	mg/m³	Run 2, mg/m²	Factor (b), %	Run 2, mg/m³	Volume, ft	material - null 2, lb	tems	2, Ib/item
2,4,5-Trichlorophenol Isosafrole Isosafrole 2-Chloronaphthalene 2-Nitronalitne 14-Naphthoquinone	197	ON	ON	QN	QN	0.8469	QN	34,499	QN	-	QN
lsosafrole 2-Chloronaphthalene 2-Nitroaniine 14-Naphthoquinone	197	ND	ΟN	ON -	QV	0.8469	Q	34,499	2	-	Q
2-Chloronaphthalene 2-Nitroaniline 1.4-Naphthoguinone	162	ND	QN	QN	QV	0.8469	QN	34,499	Q	-	Q
2-Nitroaniline	163	ND	ON	ND	Q	0.8469	QN	34,499	Q	-	Q
1,4-Naphthoquinone	138	ND	ON	QN	QN	0.8469	Q	34,499	Q	1	2
	158	ON	QN	QN	ON	0.8469	QN	34,499	Q	-	2
Dimethylphthalate	194	ON.	QN	ON	QN	0.8469	QN	34,499	Q	-	Q
1,3-Dinitrobenzene	168	ON	QN	QN	QN	0.8469	QN	34,499	2	-	QN
2,6-Dinitrotoluene	182	ND	QN	ND	QN	0.8469	QN	34,499	Q	-	Q
Acenaphthylene	152	NO	ON	ON	QN	0.8469	QN	34,499	Q	-	QN
3-Nitroaniline	138	ND	ON	Q	Q	0.8469	QN	34,499	Q	-	QN
4-Nitrophenol	139	ON.	QN	Q	Q	0.8469	Q	34,499	2	-	2
2,4-Dinitrophenol	184	Q	Q	QN	Q	0.8469	Q	34,499	2	-	2
Acenaphthene	154	Q	Q	Q	2	0.8469	Q	34,499	2	-	9
2,4-Dinitrotoluene	182	Q	Q	QN	QN	0.8469	QN	34,499	9	-	2
Dibenzofuran	168	ND	Q	Q	Q	0.8469	Q	34,499	2	-	Q.
Pentachlorobenzene	250	ND	Q	Q	Q	0.8469	Q	34,499	2	-	2
1-Naphthylamine	143	QN.	Q	Q	Q	0.8469	Q	34,499	2	-	2
2-Naphthylamine	143	Q	QN	Q	Q	0.8469	Q	34,499	2	-	Q
2,3,4,6-Tetrachlorophenol	232	QN	9	Q	Q	0.8469	2	34,499	2	-	QN !
Diethylphthalate	222	QN	QN	2.247E-04	9	0.8469	2	34,499	Q	-	Q.
4-Chlorophenylphenyl ether	205	QN	QN	Q	Q	0.8469	Q.	34,499	QN :	-	ON.
Fluorene	166	QN	Q	Q	2	0.8469	QN :	34,499	2		ON!
5-Nitro-o-toluidine	152	2	2	Q	2	0.8469	Q S	34,499	QV.		QV.
4-Nitroaniine	138		ON.	2	ON.	0.8469		34,499	2		2 5
4,6-Dinitro-2-methylphenol	198	2	Q.	Q !	Q S	0.8469		34,499	2		2 9
Diphenylamine/N-NitrosoDPA	169	Q	2	ON S	Q.	0.8469	2 5	34,499	2		2 5
sym-Trinitrobenzene	213		2	QN.	ON S	0.8469		34,499	2 2		2 2
Ulailate	2/0		2	Q S	Q.	0.8469		34,499	2		2 2
Phenacetin	179	2 2	2 2	2 2	2	0.8469	22	34,499	2 2	-	2 2
4-Bromopnenyiphenyi etner	249		2 2	2 2	2	0.0469	2 2	34 400	2 2	-	2 2
4 Amisobioboud	697		2 5	2 5	2 2	0.0469	2 2	34 499	2 2	- -	2
Propagide	228	S	GN.	CN	S	0.8469	S	34.499	2	-	QN
Pentachlorophenol	266	Q	Q	QN	Q	0.8469	Q	34,499	QN	-	QN
Pentachloronitrobenzene	295	QN	QN	S	Ð	0.8469	QN	34,499	ON	1	ND
Phenanthrene	178	QN	QN	QN	QN	0.8469	QN	34,499	QN	1	ND
Anthracene	178	QN	QN	QN	QN	0.8469	QN	34,499	Q	-	ND
Carbazole	167	QN	QN	QN	Q	0.8469	Q	34,499	2	-	ND
Di-n-butylphthalate	278	0.121	1.400E-03	1.615E-03	-2.156E-04	0.8469	Q	34,499	2	-	Q
4-Nitroquinoline-1-oxide	190	QN	QN	QN	QN	0.8469	2	34,499	2	-	Q
Methapyrilene	261	ON	ON	Q	Q	0.8469	Q	34,499	Q	-	QN
Fluoranthene	202	QN	Q	QN	QN	0.8469	QV	34,499	Q	-	Q
Benzidine	184	Q	QN	Q	Q	0.8469	Q	34,499	Q	-	Q
Pyrene	202	QN	Q	Q	2	0.8469	Q	34,499	2	-	Q
p-Dimethylaminoazobenzene	225	Q	Q	9	2	0.8469	9	34,499	Q.		2
Chlorobenzilate	325	Q S	QV.	Q S	Q	0.8469	2	34,499	2		2 2
Kepone	491	2 2	2	2	2	0.8469	2 2	34,499	2 2	-	2 2
Burylbenzyipninalate	216	בֿ בֿ	Š	Š	N.	0.0403	Š	04,400	2	-	

TABLE A-12. AEC - SVOC RUN NO. 2 DATA FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1998)

Marticles Line 1	_		_	_	_	_	_	_	_		_			_	
Corrected Emission Factor - Run 2, ib/item	QN	QN	QN	QN	QN	QN	Q	Q	QN	QN	Q	Q	QN	Q	ND
Number of Items	I	ı	ı	ı	1	- 1		1	1		1	1	1	1	1
Sample Total Material - Run 2, lb	QN	QN	QN	QN	QN	ND	QN	QN	QN	QN	QN	QN	QN	QN	ND
initial Plume Volume, เชื	34,499	34,499	34,499	34,499	34,499	34,499	34,499	34,499	34,499	34,499	34,499	34,499	34,499	34,499	34,499
Corrected Concentration - Run 2, mg/m³	QN	QN	QN	QV	QN	QN	Q	Q	Q	QN	QN	QN	QN	Ð	QN
Dilution Correction Factor (b), %	0.8469	0.8469	0.8469	0.8469	0.8469	0.8469	0.8469	0.8469	0.8469	0.8469	0.8469	0.8469	0.8469	0.8469	0.8469
Background Corrected Concentration Run 2, mg/m³	Q	QN	QN	QN	QN	QN	Q	QV	QN	QN	QN	QN	QN	Q	QN
Background - Concentration, mg/m³	ON	QN	QN	QN	QN	Q	QN	QN	QN	QN	Q	QV	QN	Q	ND
Average Concentration - Run 2, mg/m³	QN	QN	QN	QN	QN	QN	QN	Q	QN	QN	QN	ND	ND	QN	ND
Average Concentration - Run 2, ppbv	QN	QN	QV	QN	QN	QV	QN	QN	QN	QN	QN	QN	QN	QN	QN
Molecular Weight	212	223	391	253	228	228	391	256	252	252	252	268	276	278	276
Compound	3,3'-Dimethylbenzidine	2-Acetylaminofluorene	ois(2-Ethylhexyl)phthalate	3,3'-Dichlorobenzidine	Benz(a)anthracene	Chrysene	Di-n-octylphthalate	7,12-Dimethylbenz(a)anthracene	3enzo(b)fluoranthene (a)	Senzo(k)fluoranthene (a)	Benz(a)pyrene	3-Methylcholanthrene	ndeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers. b Estimated from tracer data as presented in Volume IV.

TABLE A-13. AEC - SYOC COMPOSITE RUN NO. 1-2 DATA FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1998)

ND	Compound	Molecular Weight	Average Concentration - Run 1-2, ppbv	Average Concentration - Run 1-2, mg/m³	Background - Concentration, mg/m³	Background Corrected Concentration - Run 1-2, mg/m³	Dilution Correction Factor (b), %	Corrected Concentration - Run 1-2, mg/m³	Initial Plume Volume, ft³	Sample Total Material - Run 1-2, Ib	Number of Items	Corrected Emission Factor - Run 1 2, Ib/item
Participation Participatio	Down in the Manage Control to the Co											
National Control Con	N. Nitrosodimethylamine	7.4	CZ	S	S	Ş	0.8178	S	34 203	Ş	-	CN
1.0. N. N. N. N. N. N. N.	Pundine	70	2 2	2 5	S	S	0.8178	S	34 203	2	-	CN
No.	2-Picoline	93	Q	2	2	2	0.8178	Q.	34.203	2	-	Q
Observation 188 ND ND ND OBT773 ND 34,203 ND 1 Observations 1124 ND ND ND OBT73 ND 34,203 ND 1 Intrassitionine 1124 ND ND ND ND OBT73 ND 34,203 ND 1 Intrassitionine 1124 ND ND ND ND OBT73 ND 34,203 ND 1 Controlled filted 122 ND ND ND ND OBT73 ND 34,203 ND 1 Controlled filted 122 ND	Methyl methanesulfonate	110	2	Q	QN	Q	0.8178	2	34,203	Q	_	2
Particular 112 N.D. N.	N-Nitrosomethylethylamine	88	2	9	2	Q	0.8178	Q	34,203	Q	-	QV
	N-Nitrosodiethylamine	102	QN.	Q	Q	Q	0.8178	Q	34,203	QN	-	QN
No.	Ethyl methanesulfonate	124	QN	Q	QN	QN	0.8178	QN	34,203	QN	-	ON
No. No	Phenol	94	QN	Q	9	Q	0.8178	Q	34,203	QN	-	Q
No. No	Aniline	93	ND	QN	ND	QN	0.8178	QN	34,203	ON	1	QN
Operation of the control of	bis(2-Chloroethyl)ether	143	QN	QN	ON	ON	0.8178	QN	34,203	ON	1	QN
129 ND ND ND 0.0178 ND 4.22 ND 1 Incodentation 1429 ND ND ND 0.01 ND 1 1 Incodentation 147 ND ND ND 0.0178 ND 4.22.03 ND 1 Inchand 101 ND ND ND 0.0178 2.62.03 ND 1 Inchand 102 ND ND ND 0.0178 A.20.03 ND 1 Inchand 103 ND ND 0.0178 ND 0.42.03 ND 1 Inchand 103 ND ND ND 0.0178 ND 0.0178 ND 1 1 Inchand 103 ND ND ND 0.0178 ND 0.0178 ND 1 1 Inchand 103 ND ND ND 0.0178 ND 0.0178 ND 1 1 </td <td>Pentachloroethane</td> <td>202</td> <td>ND</td> <td>ON</td> <td>ON .</td> <td>ON</td> <td>0.8178</td> <td>ON</td> <td>34,203</td> <td>ON</td> <td>1</td> <td>ND</td>	Pentachloroethane	202	ND	ON	ON .	ON	0.8178	ON	34,203	ON	1	ND
Interpretation 147 ND ND ND ND ND O 61778 ND 94,203 ND 1 1 1 1 1 1 1 1 1	2-Chlorophenol	129	ON	QN	ON	QN	0.8178	QN	34,203	ND	1	QN
147 NO NO NO NO NO NO NO N	1,3-Dichlorobenzene	147	ND	Q	QN	Q	0.8178	QN	34,203	QN	-	Q
Protection 108	1,4-Dichlorobenzene	147	QN	QN	2	QN	0.8178	QN	34,203	QN	_	QN
The control of the	Benzyi aiconoi	801	0.134	6.01bE-04	Q.	6.016E-04	0.8178	7.356E-04	34,203	1.5/1E-06	-	1.5/1E-06
Controlleries 147 NUO S4,203 NUO 1 plened/Arthylphreid 1077 NUO NUO NUO 4,806,604 NUO 0,8178 NUO 34,203 NUO 1 plened/Arthylphreid 107 NUO NUO NUO 4,806,604 NUO 0,8178 NUO 34,203 NUO 1 prined/Arthylphreid 1106 NUO NUO A1,806,604 NUO 0,8178 NUO 34,203 NUO 1 prined/Arthylphreid 1106 NUO NUO NUO 0,8178 NUO 34,203 NUO 1 1 pryncidire 1106 NUO NUO NUO NUO NUO 0,8178 NUO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <td>2-Methylphenol</td> <td>108</td> <td>QN.</td> <td>Q.</td> <td>2</td> <td>2</td> <td>0.8178</td> <td>Q :</td> <td>34,203</td> <td>Q</td> <td>-</td> <td>QN</td>	2-Methylphenol	108	QN.	Q.	2	2	0.8178	Q :	34,203	Q	-	QN
177 ND ND ND ND ND ND ND	1,2-Dichlorobenzene	147	ON.	QN:	QN.	QN :	0.8178	Q	34,203	QN		QN
microphamol (microphydrine) 107 NU NU NU 4.80E-04 0.8179 NU 1 NU 1 NU NU NU 0.8179 NU 0.8179 NU 1 NU NU NU NU NU NU NU 0.8179 NU NU NU NU 0.8179 NU	bis(2-Chloroisopropyi)ether	171	ON C	ON :	2	ON.	0.8178	QN.	34,203	Q.	-	QN :
1.20	o-Toluidine	107	ON CO	ON	2 2	ON JOSE	0.8178	ON L	34,203	ON THE		ON C
Control/Department 130 NLD	4-methylphenol/3-methylphenol	2 5	0.102	4.300E-04	22	4.360E-04	0.8178	9.3/6E-04	34,203	1.191 E-06	- ,	1.191E-00
Omorpholine 150 ND ND ND OB176 ND 34,203 ND 1 Omorpholine 150 ND ND ND ND ND 0,8178 ND 34,203 ND 1 Oppyrilidie 100 ND ND ND ND ND 34,203 ND 1 Oppyrilidie 123 ND ND ND ND 0,8178 ND 34,203 ND 1 Oppyrilidie 139 ND ND ND ND 0,8178 ND 34,203 ND 1 Drace 139 ND ND ND ND 0,8178 ND ND 1 Drace 139 ND ND ND ND ND ND 0,8178 ND 1 Drace 139 ND ND ND ND ND 0,8178 ND ND 1 Drace 130 ND <td>Action Contraction of the Contra</td> <td>330</td> <td>2</td> <td></td> <td>NO 3967 1</td> <td>2 2</td> <td>0.0170</td> <td>2 2</td> <td>34,203</td> <td>2 2</td> <td>-</td> <td>2 2</td>	Action Contraction of the Contra	330	2		NO 3967 1	2 2	0.0170	2 2	34,203	2 2	-	2 2
Opposition of the control of	Acetopilerione	120	2 2	2 2	1.7000-04	2 2	0.0170	2 2	34,203	2 5	-	2 2
Operation NO NO NO NO OBTING	N-Willosomorphome	2	S S		2 2	22	0.0170	2 2	34,203	2 2	- -	2 2
Userner 2.2 ND ND ND ND 0.0170 ND 34,203 ND 1 Userner 1.23 ND ND ND ND 0.8178 ND 34,203 ND 1 no-perforder 1.14 ND ND ND ND ND 0.8178 ND 34,203 ND 1 no-perforder 1.22 ND ND ND 0.8178 ND 34,203 ND 1 achtyphenot 1.22 ND ND ND ND 0.8178 ND 34,203 ND 1 achtyphenot 1.23 ND ND ND ND 0.8178 ND 34,203 ND 1 achtyphenot 1.22 ND ND ND ND 0.8178 ND 34,203 ND 1 achtyphenot 1.23 ND ND ND ND 0.8178 ND 34,203 ND 1	Locachiomorphano	232	2	22	2 2	22	0.0170	2 2	34,203	2 2	-	2
Location Location ND	Nicoborgood	100	5	2 2	2 2		0.0170	2 2	20,400	22	-	2 2
Option of the proposed	N. Nitrosopioendine	227	2 2	2 2	2 2	22	0.0170	2 2	20,203	2 2	-	22
Projection of the configuration of the configurat	Sonhorone	138	2 2	2 5	2 2	2 5	0.0178	2 2	34 203	2 5	-	2 2
hencil confliction that the problem of the	2.4-Dimethylphenol	122	QN	S	S	S	0.8178	CZ	34 203	S	-	2 2
Inchigochloray/methane 173 ND ND ND ND 0.9178 ND 34,203 ND 1 a cid ND ND ND ND 0.8178 ND 34,203 ND 1 chlorophend 162 ND ND ND ND 0.8178 ND 34,203 ND 1 chlorophend 163 ND ND ND ND 0.8178 ND 34,203 ND 1 chlorophend 163 ND ND ND ND 0.8178 ND 34,203 ND 1 ND 1 chlorophend 163 ND ND ND ND 0.8178 ND 34,203 ND 1 ND incophraden 163 ND ND ND ND 0.8178 ND 34,203 ND 1 1 incophraden 243 ND ND ND ND 0.8178 ND	2-Nitrophenol	139	QN	QV	9	QN	0.8178	Q	34,203	Q	_	Q.
acid 122 ND ND ND ND ND ND 0.8178 ND 34,203 ND 1 Incorphenol 163 ND ND ND ND ND ND ND 1 1 Incorphenol 163 ND ND ND ND ND 0.8178 ND 34,203 ND 1 1 Incorphenol 128 5,576 2,969E-02 ND 0.8178 3,631E-02 34,203 ND 1 ND 1 ND ND ND 0.8178 3,631E-02 34,203 ND 1 ND 1 ND ND ND 0.8178 ND ND 1 ND ND<	bis(2-Chloroethoxy)methane	173	QN	QV	Q	QN	0.8178	QN	34,203	QN	-	QN
Licyphenol 163 ND ND ND ND 0.8178 ND 34,203 ND 1 Ichlorobenzene 181 ND 2,969E-02 0.8178 ND 34,203 ND 1 Ichlorobenzene 128 ND ND ND 0.8178 ND 34,203 ND 1 Asaline 128 ND ND ND ND 0.8178 ND 34,203 ND 1 1 Asaline 128 ND ND ND ND 0.8178 ND 34,203 ND 1 1 Asaline 163 ND ND ND ND 0.8178 ND 34,203 ND 1 1 Isopolated 162 ND ND ND ND 0.8178 ND 34,203 ND 1 1 Isopolated 158 ND ND ND ND 0.8178 ND 34,203 ND <td< td=""><td>Benzoic acid</td><td>122</td><td>ND</td><td>QN</td><td>ND</td><td>ON</td><td>0.8178</td><td>QN</td><td>34,203</td><td>QN</td><td>1</td><td>QN</td></td<>	Benzoic acid	122	ND	QN	ND	ON	0.8178	QN	34,203	QN	1	QN
cichlorobenzene 181 ND ND ND ND ND 2969E-02 0.8178 ND 34,203 ND 1 namiline 128 5.576 2.969E-02 ND 0.8178 ND 34,203 7.752E-05 1 7 namiline 128 5.576 2.969E-02 ND 0.8178 ND 34,203 ND 1 7 namiline 128 ND ND ND ND ND 0.8178 ND 34,203 ND 1 inorpropene 249 ND ND ND ND ND 0.8178 ND 34,203 ND 1 inorpropene 281 ND ND ND ND ND 0.8178 ND 34,203 ND 1 inorpropene 281 ND	2,4-Dichlorophenol	163	QN	QN	ON	QN	0.8178	QN	34,203	QN	1	QN
liene 128 5.576 2.968E-02 ND 2.968E-02 0.8178 3.631E-02 34,203 7.752E-05 1 7 7.752E-05 1 7.752E-05 1 7 7 7.752E-05 1 7 7 7.752E-05 1 7 <td>1,2,4-Trichlorobenzene</td> <td>181</td> <td>Q.</td> <td>QN</td> <td>Q</td> <td>QN</td> <td>0.8178</td> <td>QN</td> <td>34,203</td> <td>Q</td> <td>-</td> <td>QN</td>	1,2,4-Trichlorobenzene	181	Q.	QN	Q	QN	0.8178	QN	34,203	Q	-	QN
Paralline 128 ND ND ND ND ND ND A3-203 ND 1 Incophenol 163 ND ND ND ND 0.8178 ND 34,203 ND 1 Incophenol 163 ND ND ND ND 0.8178 ND 34,203 ND 1 Incophenol 261 ND ND ND ND ND 0.8178 ND 34,203 ND 1 Incoputadiene 261 ND ND ND ND ND 0.8178 ND 1 1 Incoputadiene 158 ND ND ND ND 0.8178 ND 1 1 S-3-methylphenol 162 ND ND ND 0.8178 ND 34,203 ND 1 Inaphthalene 162 ND ND ND 0.8178 ND 34,203 ND 1 Intractionobenzene	Naphthalene	128	5.576	2.969E-02	9		0.8178	3.631E-02	34,203	7.752E-05	-	7.752E-05
instraction of the control o	p-Chloroaniine	128	QN .	Q.	Q	QV.	0.8178	Q	34,203	2	-	Q
Oroblingheine 243 ND ND ND ND ND AG	Z,b-Dignorphenol	163	2	2 5	2 2	2 2	0.81/8	2 2	34,203	2 5		2 2
tipement/plannine 149 ND ND ND 0.8178 ND 34,203 ND 1 0c-dr-butylamine 158 ND ND ND 0.8178 ND 34,203 ND 1 0c-dr-butylamine 158 ND ND ND 0.8178 ND 34,203 ND 1 0c-dr-butylamine 162 ND ND ND 0.8178 ND 34,203 ND 1 162 ND ND ND ND 0.8178 ND 34,203 ND 1 Inaphthalene 216 ND ND ND 0.8178 1.564E-02 34,203 ND 1 Tetrachlorobenzene 216 ND ND ND ND 0.8178 ND 34,203 ND 1 orocyclopentadiene 273 ND ND ND 0.8178 ND 34,203 ND 1 orocyclopentadiene 197 ND ND </td <td>Hexachlorobitadiene</td> <td>261</td> <td>2 2</td> <td>2 5</td> <td>2 2</td> <td>2 2</td> <td>0.0178</td> <td>2 2</td> <td>34,203</td> <td>2 2</td> <td>-</td> <td>2</td>	Hexachlorobitadiene	261	2 2	2 5	2 2	2 2	0.0178	2 2	34,203	2 2	-	2
co-di-r-butylamine 158 ND ND ND ND 0.8178 ND 34,203 ND 1 b-3-methylphenol 143 ND ND ND 0.8178 ND 34,203 ND 1 riaphthalene 162 ND ND ND ND 1,279E-02 0.8178 ND 34,203 ND 1 riaphthalene 142 2.165 1,279E-02 ND 1,579E-02 34,203 34,203 ND 1 relaction chenzene 216 ND ND ND 0,8178 ND 34,203 ND 1 cocyclopentadiene 273 ND ND ND ND 0,8178 ND 34,203 ND 1 chlorophenol 197 ND ND ND 0,8178 ND 34,203 ND 1	Dimethylphenethylamine	149	GN	2 6	2 2	2 2	0.8178	S	34 203	e e	-	2
3-3-methyphenol 143 ND ND ND ND ND 0.8178 ND 34,203 ND 1 Additional per lang language 162 ND	N-Nitroso-di-n-butylamine	158	QV.	2	2	2	0.8178	2 2	34.203	2	-	Q
Inaphthalene 162 ND ND ND 0.8178 ND 34,203 ND 1 Inaphthalene 142 2.165 1.279E-02 ND 1,279E-02 0.8178 1.564E-02 34,203 339E-05 1 Intrachlorobenzene 216 ND ND ND ND 0.8178 ND 34,203 ND 1 orocyclopentadiene 273 ND ND ND ND 0.8178 ND 34,203 ND 1 cicliorophenol 197 ND ND ND 0.8178 ND 34,203 ND 1	4-Chloro-3-methylphenol	143	Q	QN	QN	QN	0.8178	QN	34,203	Q	-	Q
nzene 142 2.165 1.279E-02 ND 1.279E-02 0.8178 1.564E-02 34,203 3,339E-05 1 nzene 216 ND ND ND ND 0.8178 ND 34,203 ND 1 ndiene 273 ND ND ND ND 0,8178 ND 34,203 ND 1 ndiene 197 ND ND ND ND 0,8178 ND 34,203 ND 1	Safrole	162	QN	QV	QV	QN	0.8178	QN	34,203	Q	-	Q
nzerie 216 ND ND ND 0.8178 ND 34,203 ND 1 Adiene 273 ND ND ND 0.8178 ND 34,203 ND 1 Adiene 197 ND ND ND 0.8178 ND 34,203 ND 1	2-Methylnaphthalene	142	2.165	1.279E-02	ND	1.279E-02	0.8178	1.564E-02	34,203	3.339E-05	1	3.339E-05
Adiene 273 ND ND ND 0.8178 ND 34,203 ND 1 ND 197 ND ND ND 0.8178 ND 34,203 ND 1	1,2,4,5-Tetrachlorobenzene	216	Q	QN	QN	QN	0.8178	QN	34,203	QN	1	ON
197 ND ND ND 0.8178 ND 34,203 ND 1	Hexachlorocyclopentadiene	273	2	Q	Q	QV	0.8178	QV	34,203	Q	-	QN
	2,4,6-Trichlorophenol	197	Q	2	2	Q	0.8178	2	34,203	9	1	Q

TABLE A-13. AEC - SVOC COMPOSITE RUN NO. 1-2 DATA FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1998)

	Molecular	Average Concentration -	Average Concentration -	Background - Concentration,	Background Corrected Concentration -	Dilution Correction	Corrected Concentration -	Initial Plume	Sample Total Material - Run	Number of	Corrected Emission Factor - Run 1
Compound	Weight	Run 1-2, ppbv	Run 1-2, mg/m"	mg/m³	Run 1-2, mg/m³	Factor (b), %	Run 1-2, mg/m ²	Volume, ft*	1-2, lb	Items	2, Ib/item
2,4,5-Trichlorophenol	197	Q	Q	2	Q	0.8178	Q	34,203	2	1	2
Isosatrole	162	Q	2	2	2	0.8178	Q	34,203	QN	-	2
2-Chloronaphthalene	163	2	2	2	2	0.8178	9	34,203	2	-	2
2-Nitroaniline	138	Q	Q	2	ND	0.8178	Q	34,203	2	-	2
1,4-Naphthoquinone	158	Q	Q	2	Q	0.8178	Q	34,203	2	-	2
Dimethylphthalate	194	Q	Q	Q	Q	0.8178	QN	34,203	Q	-	Q
1,3-Dinitrobenzene	168	QN	QN	ON	ND	0.8178	QN	34,203	QN	1	QN
2,6-Dinitrotoluene	182	QN	QN	Q	QN	0.8178	QN	34,203	QN	- 1	2
Acenaphthylene	152	0.071	4.483E-04	QN	4.483E-04	0.8178	5.481E-04	34,203	1.170E-06	1	1.170E-06
3-Nitroaniline	138	QN	QN	QN	QN	0.8178	QV	34,203	9	-	9
4-Nitrophenol	139	ON	QN	ON	ND	0.8178	QN	34,203	QN	1	Q
2,4-Dinitrophenol	184	QN	QN	ON	ND	0.8178	QN	34,203	QN	1	QN
Acenaphthene	154	QN	QN	ON	NĎ	0.8178	QN	34,203	QN	1	ON
2,4-Dinitrotoluene	182	QN	QN	QN	QN	0.8178	QV	34,203	Q	1	9
Dibenzofuran	168	QN	QN	Q	Q	0.8178	Q	34,203	Q	-	9
Pentachlorobenzene	250	QN	2	Q	QN	0.8178	Q	34,203	2	-	9
1-Naphthylamine	143	QN	QN	QN	QN	0.8178	QN	34,203	QN	1	Q
2-Naphthylamine	143	QN	QN	QN	ON	0.8178	QN	34,203	QN	1	QN
2,3,4,6-Tetrachlorophenol	232	ON	ON	ON	ND	0.8178	QN	34,203	QN	1	QN
Diethylphthalate	222	0.008	7.510E-05	2.247E-04	-1.496E-04	0.8178	QN	34,203	QN	1	QN
4-Chlorophenylphenyl ether	205	ON	ON	ON	ND	0.8178	QN	34,203	QN	1	QN
Fluorene	166	0.015	1.009E-04	Q	1.009E-04	0.8178	1.234E-04	34,203	2.635E-07	1	2.635E-07
5-Nitro-o-toluidine	152	QN	Q	Q	QV	0.8178	9	34,203	ND	1	Q
4-Nitroaniline	138	ND	Q	Q	QN	0.8178	Q	34,203	ON	1	ON
4,6-Dinitro-2-methylphenol	198	QN	Q	Q	NO	0.8178	QN	34,203	ON	ı	Q
Diphenylamine/N-NitrosoDPA	169	Q	Q	Q	ND	0.8178	Q	34,203	QN	1	9
sym-Trinitrobenzene	213	QN	Q.	9	9	0.8178	9	34,203	Q	1	9
Dialiate	270	QN.	Q.	Q :	2	0.8178	Q !	34,203	2	-	2
Phenacetin	179	Q !	QN !	Q	Q	0.8178	Q	34,203	Q	1	2
4-Bromophenylphenyl ether	249	2	QN .	Q.	Q :	0.8178	Q	34,203	Q !	_	2
Hexachloropenzene	CR7	2 2	2 9	2	2	0.8178	2	34,203	ON.	-	2
4-Aumiobiphenyi Ososomida	60-	2 2	2 2	2	2	0.01/0	2 2	34,203	2 5	-	2
Pentachloronhenol	266	2 2	2 2	2 5	2 2	0.0178	22	34,203	2 2		2 2
Pentachloronitrobenzene	295	Q	Q	S	S	0.8178	S	34 203	28	-	2 2
Phenanthrene	178	0.039	2.872E-04	2	2.872E-04	0.8178	3.512E-04	34,203	7.499E-07	-	7.499E-07
Anthracene	178	QN	QN	Q	QN	0.8178	QN	34,203	QN	_	Ð
Carbazole	167	QN	QN	QN	QN	0.8178	QV	34,203	9	-	2
Di-n-butyiphthalate	278	0.028	3.202E-04	1.615E-03	-1.295E-03	0.8178	QN	34,203	QN	1	QN
4-Nitroquinoline-1-oxide	190	QN	QN	QN	ND	0.8178	QN	34,203	QN	1	Ñ
Methapyrilene	261	Q	Q	Q	ND	0.8178	QN	34,203	ND	1	QN
Fluoranthene	202	Q	QN	Q	ND	0.8178	Q	34,203	QN		Ō
Benzidine	184	Q	Q	QN	ND	0.8178	ON	34,203	QN		QN
Pyrene	202	Q	Q	Q	Q	0.8178	QN	34,203	Q	-	Q
p-Dimethylaminoazobenzene	225	2	2	Q	Q	0.8178	Q	34,203	Q	-	Q
Chlorobenzilate	325	Q.	Q	Q	Q	0.8178	Q	34,203	9	-	Q
Kepone	491	2 2	2	Q S	Q.	0.8178	Q.	34,203	Q:	-	Q.
5 3' Dimethylperzidine	312	2 2	2 2	2 2	2	0.8178	Q	34,203	2	_ ,	2
S.ADillietriyibelizionie	2000	2 2	2 2	2 2	2 2	0.8178	2 2	34,203	2 2	- ,	2 9
A A Celyial IIII con a control	5250	בול בולים	Ž.	Į.	טֿע	0.01/0	טע	34,203	ON .	-	Z C

TABLE A-13. AEC - SVOC COMPOSITE RUN NO. 1-2 DATA FOR SIMULATOR FLASH ARTILLERY TEST (28 MARCH 1999)

					Background						Corrected
	k. :	Average	Average	Background -	Corrected	Dilution	Corrected		Sample Total		Emission
	Molecular	Concentration -	Concentration -	Concentration,	Concentration -	Correction	Concentration -	Initial Plume	Material - Run	Number of	Factor - Run 1
Compound	Weight	Run 1-2, ppbv	Run 1-2, mg/m³	mg/m³	Run 1-2, mg/m³	Factor (b), %	Run 1-2, mg/m³	Volume, ft	1-2, lb	Items	2, lb/item
(2-Ethylhexyl)phthalate	391	QN	QN	ON	QN	0.8178	QN	34,203	ON	-	9
'-Dichlorobenzidine	253	QN	QN	QN	QV	0.8178	QN	34,203	Q	-	2
nz(a)anthracene	228	QN	QN	ON	QN	0.8178	QN	34,203	QN	1	Ð
rysene	228	QN	ON	QN	QN	0.8178	Q	34,203	2	-	2
n-octylphthalate	391	QN	QN	QN	QN	0.8178	QN	34,203	Q	-	Q
2-Dimethylbenz(a)anthracene	256	QN	QN	QN	QN	0.8178	Q	34,203	Q	-	Q
nzo(b)fluoranthene (a)	252	QN	ON	QN	QN	0.8178	ON	34,203	QN	1	Q
nzo(k)fluoranthene (a)	252	QN	QN	QN	QN	0.8178	QN	34,203	QN	1	Q
nz(a)pyrene	252	QN	ON	QN	QN	0.8178	QN	34,203	QN	-	QN
dethylcholanthrene	268	ON	ON	ON	QN	0.8178	QN	34,203	QN	1	QN
leno(1,2,3-cd)pyrene	276	QN	ON	QN	QN	0.8178	QN	34,203	Q	1	Q
venz(a,h)anthracene	278	ON	QN	QN	QN	0.8178	ON	34,203	QN	1	QN
nzo(g,h,i)perytene	276	QN	ON	QN	QN	0.8178	QN	34,203	QN	1	QN

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers. b Estimated from tracer data as presented in Volume IV.

SIMULATOR HAND GRENADE

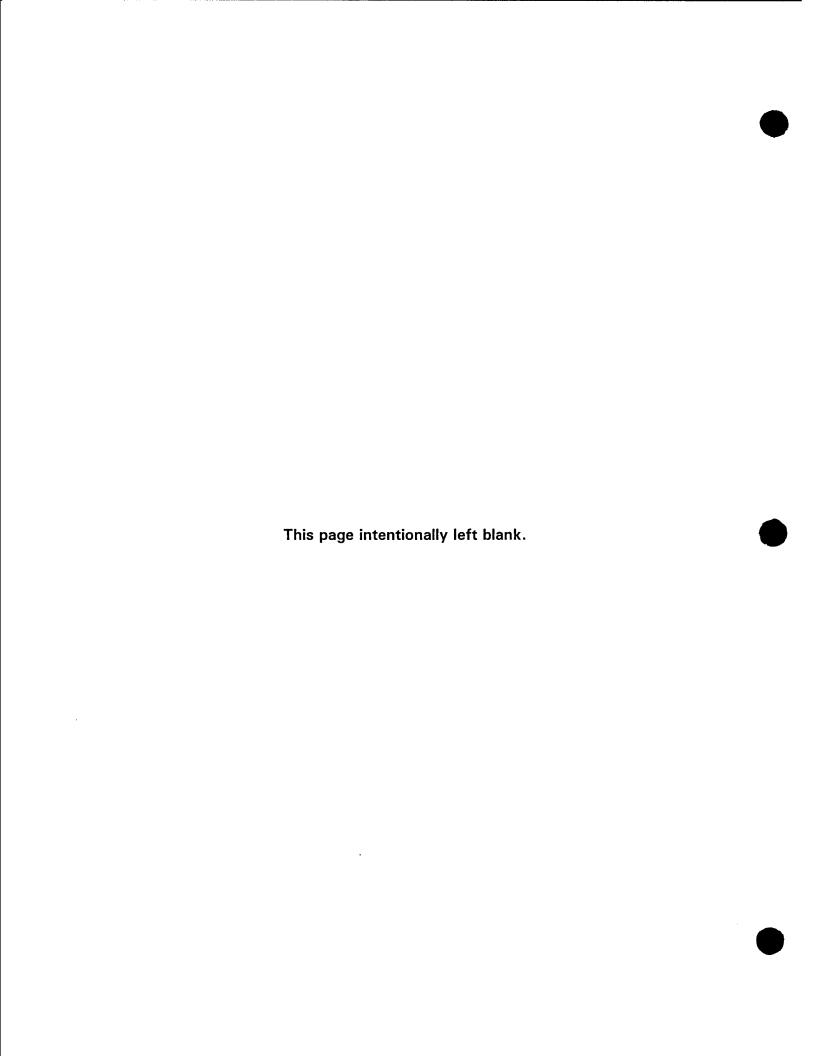


TABLE A-1. AEC MUNITION ITEM INPUT DATA SHEET (30 MARCH 1998)
Munition Item: Simulator Hand Grenade
Created by: Radian International LLC

No. of Runs =

Sample Volumes:	Run	No. 1	Run	No. 2	Compos	ite Run	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(ft³)
TSP	252.8	306.2	251.6	301.9	NA	NA	278.12
PM ₁₀	138.1	132.4	141.5	132.9	NA	NA	136.22
Metals	252.8	306.2	251.6	301.9	NA	NA	278.12
VOCs	NA						
SVOCs	56.3	49.4	41.2	36.4	NA	85.7	45.78
HCI/CI₂	30.4	23.8	29.8	23.7	NA	NA	26.91
Energetics	NA						
Dioxin/Furan	57.7	58.6	40.8	46.4	NA	104.9	50.84
Residue	NA						
CEM	NA	NA	NA	NA	NA NA	NA	NA

Sample Volumes:	Run	No. 1	Run	No. 2	Compos	site Run	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(mL)
HCI/Cl ₂ (H ₂ SO ₄)	39.0	40.5	51.5	40.5	NA	NA	42.88
HCI/CI₂ (NaOH)	40.0	33.0	36.0	37.0	NA	NA	36.50

Sample Weight Gain:	Run	No.1% \$	Run	No. 2	Compo	site Run	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(g)
TSP	0.9240	0.9317	1.2870	1.3282	NA	NA	1.1177
PM ₁₀	0.5243	0.5491	0.7267	0.7687	NA	NA	0.6422

Dilution Correction Factors:	Run No. 1	Run No. 2	Composite Run	Average
TSP	0.9373	0.9377	NA	0.9375
PM ₁₀	0.9680	0.9682	NA	0.9681
Metals	0.9373	0.9377	NA	0.9375
VOCs	0.9236	0.9330	NA	0.9283
SVOCs	0.8797	0.9085	0.8941	0.8941
HCl/Cl₂	0.8797	0.9085	NA	0.8941
Energetics	NA	NA	NA	NA
Dioxin/Furan	0.8797	0.9085	0.8941	0.8941
Residue	NA	NA	NA	NA
CEM	0.8269	0.8281	NA	0.8275

	Run No. 1	Run No. 2	Composite Run	Average
Initial Plume Volume (m³)	1057.41	1009.29	1033.35	1033.35
Net Explosive Weight (g)	146.96	146.96	146.96	146.96

TABLE A-2. AEC BACKGROUND INPUT DATA SHEET (30 MARCH 1998)

Munition Item: Simulator Hand Grenade Created by: Radian International LLC

No. of Runs =

2

Sample Volumes:	HG - Bac	kground	Reage	nt Blank	Field	Blank	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(ft³)
TSP	1404.0	NA	NA	NA	NA	NA	1403.98
PM ₁₀	1044.2	NA	NA	NA	NA	NA	1044.23
Metals	1404.0	NA	NA	NA	NA	NA	1403.98
VOCs	NA	NA	NA	NA	NA	NA	NA
SVOCs	108.3	NA	NA	NA	NA	NA	108.32
HCl/Cl₂	29.8	NA	NA	NA	NA	NA	29.83
Energetics	NA	NA	NA	NA	NA	NA	NA
Dioxin/Furan	152.0	NA	NA	NA	NA	NA	152.03
Residue	NA	NA	NA	NA	NA	NA	NA
CEM	NA	NA	NA	NA	NA	NA	NA

Sample Volumes:	HG - Bad	ckground	Reagei	nt Blank	Field	Blank	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(mL)
HCI/CI ₂ (H ₂ SO ₄)	43.0	NA	107.2	NA	45.3	NA	75.10
HCl/Cl₂ (NaOH)	37.0	NA	92.0	NA	41.5	NA	64.50
HCI/CI ₂ (H ₂ O)	NA	NA	100.0	NA	NA	NA	100.00

Sample Weight Gain:	HG - Bac	kground	Reager	nt Blank	Field	Blank	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(g)
TSP	-0.0025	NA	-0.0026	NA	-0.0037	NA	-0.0026
PM ₁₀	-0.0238	NA	-0.0002	NA	-0.0029	NA	-0.0120

TABLE A-3. AEC - TSP, PM, HC/JC, DIOXIN/FURAN, CC, CO, NOX, SO, AND METALS DATA EVALUATION FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

					Average	Average Maximum	Average Minimum		Minimum		Minimum
	Average	Average	Average	Average	Background -	Detection Limit •	Detection Limit	Background	Detection Limit	Background	Detection Limit
Communication	Concentration - Bun 1 mo/m3	Concentration -	Concentration -	Concentration -	Concentration, mo/m³	Concentration, ma/m³	Concentration,	Evaluation	Evaluation Criteria	Evaluation	Evaluation Notes
	A		,				>				
Particulate											
TSP	1.183E+02	1.665E+02	QN	1.424E+02	-6.288E-02	ON	QN	2264.24	10.00	٧	A
PM ₁₀	1.402E+02	1.954E+02	QN	1.678E+02	-8.049E-01	QN	QN	208.51	10.00	A	A
Hydrogen Chloride (HCI)/Chlorine (CI ₂)											
HCI	QN	QN	QN	QN	QN	7.504E-02	5.682E-02	QN	QN	F	Ŧ
Cl ₂	7.579E-03	1.458E-02	QN	1.108E-02	3.877E-03	1.588E-03	1.312E-03	2.86	8.44	၁	В
Dioxin/Furan											
Dioxin TEQ (a)	3.472E-11	2.571E-10	QN	1.459E-10	QN	ON	QN	10.00	10.00	A	Ą
									•		
Continuous Emissions Monitoring (CEM) System	vstem										
Carbon Monoxide (CO)	4.539E-01	3.204E-01	S	3.871E-01	2.252E-02	QN	QV	17.19	10.00	A	٧
Nitrogen Oxide (NOx)	5.809E+00	1.018E+01	S	7.996E+00	3.925E-02	Q	Q	203.71	10.00	A	4
HCI	8.485E-01	-7.869E-01	Ω	3.078E-02	8.719E-01	Q	Q	0.04	10.00	u	A
Carbon Dioxide (CO ₂)	6.844E+02	7.009E+02	Ð	6.927E+02	6.829E+02	ON	QV.	1.01	10.00	D	٧
Sulfur Dioxide (SO ₂)	9.990E-01	2.909E-01	QN	6.450E-01	-9.235E-04	ON	QN	698.38	10.00	Y	A
Particulate-phase Metals				٠							
Aluminum	1.089E+01	1.727E+01	QV	1.408E+01	NA (b)	3.378E-03	2.200E-03	NA (b)	6399.31	NA (b)	¥
Antimony	1.485E-02	3.530E-02	Q	2.507E-02	NA (b)	4.840E-04	3.165E-04	NA (b)	79.22	NA (b)	٧
Arsenic	2.963E-04	3.924E-04	QN	3.443E-04	NA (b)	3.321E-04	2.171E-04	NA (b)	1.59	NA (b)	٥
Barium	3.264E-02	6.634E-02	Q	4.949E-02	NA (b)	3.690E-05	2.413E-05	NA (b)	2051.21	NA (b)	٧
Beryllium	5.991E-05	3.472E-05	Q	4.732E-05	NA (b)	2.058E-05	1.341E-05	NA (b)	3.53	NA (b)	ပ
Cadmium	2.075E-04	3.740E-04	Q	2.907E-04	NA (b)	4.102E-05	2.682E-05	NA (b)	10.84	NA (b)	A
Chromium	5.370E-04	1.038E-03	Q	7.877E-04	NA (b)	7.252E-05	4.740E-05	NA (b)	16.62	NA (b)	4
Cobalt	3.366E-04	5.136E-04	Q	4.251E-04	NA (b)	7.252E-05	4.740E-05	NA (b)	8.97	NA (b)	8
Copper	1.277E-02	3.376E-02	QN	2.327E-02	NA (b)	1.774E-04	1.162E-04	NA (b)	200.16	NA (b)	∀
Lead	1.499E-03	2.065E-03	QV	1.782E-03	NA (b)	2.739E-04	1.788E-04	NA (b)	9.97	NA (b)	m
Magnesium	1.312E+01	2.033E+01	QV	1.673E+01	NA (b)	7.096E-04	2.058E-05	NA (b)	812760.39	NA (b)	A
Manganese	1.265E-02	1.904E-02	ON	1.585E-02	NA (b)	3.151E-05	2.058E-05	NA (b)	770.01	NA (b)	A
Nickel	1.137E-03	1.962E-03	ND .	1.550E-03	NA (b)	1.108E-04	7.238E-05	NA (b)	21.41	NA (b)	A
Phosphorus	1.155E-02	2.773E-02	QN	1.964E-02	NA (b)	7.792E-04	5.095E-04	NA (b)	38.55	NA (b)	A
Selenium	QN	3.371E-04	ND	3.371E-04	NA (b)	2.640E-04	1.732E-04	NA (b)	1.95	NA (b)	O
Silver	ON	QN	ON	QN	NA (b)	4.925E-05	3.222E-05	NA (b)	ON	NA (b)	Ц
Thailium	QV	QN	QN	_ QN	NA (b)	6.245E-04	4.073E-04	NA (b)	_ QN	NA (b)	ı.
Zinc	9.439E-03	2.257E-02	QN .	1.600E-02	NA (b)	5.933E-04	3.875E-04	NA (b)	41.30	NA (b)	A
Mercury	1.580E-06	2.816E-06	2	2.198E-06	NA (b)	1.304E-06	5.393E-07	NA (b)	4.08	NA (b)	ပ

a Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD.

b Insufficient material to analyze.

A = Identified as a contaminant (greater than or equal to 10 times background or minimum MQL)
B = Likely contaminant (less than 10 and greater than or equal to 5 times background or minimum MQL)
C = Probable contaminant (less than 5 and greater than or equal to 2 times background or minimum MQL)
D = Meastured, but accuracy or presence questionable (less than 2 and greater than or equal to 1 times background or minimum MQL)
F = Not considered a contaminant (less than 1 times background or minimum MQL)

TABLE A-4. AEC - TSP, PM₁₀, HCVCl₃, DIOXIN/FURAN, CO, CO₂, NOx, SO₂, AND METALS RUN NO. 1 DATA FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

Particulative Particulativ	Compound	Molecular Weight	Average Concentration - Run 1, ppbv	Average Concentration - Run 1, mg/m³	Background - Concentration, mg/m³	Background Corrected Concentration - Run 1, mg/m³	Dilution Correction Factor (s), %	Corrected Concentration - Run 1, mg/m³	Initial Plume Volume, ft	Sample Total Material - Run 1, lb	Number of Items	Corrected Emission Factor - Run 1, Ib/Item
1185E-02 1485E-02 1485E-03	Particulate											
Comparison Com	TSP			1.183E+02	-6.288E-02	1.183E+02	0.9373	1.263E+02	37,342	2.943E-01	4	7.358E-02
Sgen Chiloride (HCL)/Chilorine (CL) 36 ND ND ND ND ND ND 3772E-73 3772E-73 ND 0.8797 4.209E-0.3 37.342 Franch TT 2.570 7.578E-0.3 3.877E-11 ND 3.472E-11 ND 3.472E-11 ND 3.472E-11 ND 3.472E-11 3.972E-11 3.734Z 3.947E-11 37.34Z ND ND 3.472E-11 ND 3.472E-11 ND 3.472E-11 0.8797 4.209E-0.3 37.34Z ND AND 3.472E-11 ND 3.472E-11 ND 3.472E-11 0.872 3.947E-11 37.34Z ND AND 3.472E-11 ND 3.472E-11 ND 3.472E-11 37.34Z ND AND 3.992E-02 3.472E-01 3.242E-02 3.472E-02 3.342E-03	PM ₁₀			1.402E+02	-8.049E-01	1.411E+02	0.9680	1.457E+02	37,342	3.397E-01	4	8.492E-02
Furant												
Table Tabl	Hydrogen Chloride (HCI)/Chlorine (CI ₂)				4	4		4	0,0	4		2
Figure Colores Color	HCI (b)	36	ON SEE		ON COLUMN	ON SOL	0.8797	ON LOSS	37,342		4	ON LOSS
Furnity Furn	Cl ₂ (b)	5	2.3/0		3.8775-03	3.702E-03	0.8797	4.209E-03	34,782	9.8116-00	4	Z.453E-U0
Page	Dioxin/Firen						:					
nouve Emissions Monitoring (CEM) System 289 655 4.539E-01 2.252E-02 4.313E-01 0.8269 5.216E-01 37,342 I Monoade (CO) 28 369 655 4.539E-01 2.252E-02 4.313E-01 0.8269 5.216E-01 37,342 In Oxide (NOx) 44 373827.200 6.844E-02 8.718E-02 1.444E-00 0.8269 I MOTO 1.676-00 37,342 Dioxide (CO) 44 373827.200 6.844E-02 6.828E-02 1.444E-00 0.8269 I BOTE-00 37,342 Dioxide (CO) 44 375827.200 6.844E-02 6.828E-02 1.444E-00 0.8269 I BOTE-00 37,342 Jobor (CO) 44 375827.200 6.844E-02 6.828E-02 1.444E-00 0.8269 1.807E-00 37,342 Jobor (CO) 44 375827.200 6.844E-02 6.828E-02 1.444E-00 0.8269 1.807E-00 37,342 Inchestion 45 375827.200 6.824E-02 1.444E-02 0.8269 1.807E-02 37,342 Inch	Dioxin TEQ (c)	-		3.472E-11	QN	3.472E-11	0.8797	3.947E-11	37,342	9.201E-14	4	2.300E-14
Overage (SO) State (CO) A SABE (SO) 4 SABE (SO)												
Macroside (CO) 28 380565 4 4.539E-Q1 2.2542E-Q2 4.315E-Q1 0.0269 5.516E-G1 37.342 Noblede (NOy) 36 566555 6.465E-G1 2.242E-Q2 0.0269 0.0269 5.70E-Q0 37.342 Noblede (SO ₂) 44 375232 9.99E-G1 0.235E-Q4 9.999E-G1 0.0269 1.209E+Q0 37.342 Noblede (SO ₂) 64 375.232 9.99G-G1 0.925E-Q4 9.999E-G1 0.0269 1.209E+Q0 37.342 Noblede (SO ₂) 64 375.232 9.99G-G1 0.925E-Q4 0.0269 1.209E+Q0 37.342 Noblede (SO ₂) 64 375.232 9.99G-G1 0.925E-Q4 0.0269 1.209E+Q0 37.342 Noblede (SO ₂) 64 375.232 0.990E-G1 0.925E-Q4 0.9373 1.10E+Q4 37.342 Noblede (SO ₂) 64 375.232 0.990E-G1 0.096E-G1 0.096E-G1	Continuous Emissions Monitoring (CEM) S	ystem										
Maintenant	Carbon Monoxide (CO)	28	389.655	4.539E-01	2.252E-02	4.313E-01	0.8269	5.216E-01	37,342	1.216E-03	4	3.040E-04
13 13 13 13 13 14 13 13	Nitrogen Oxide (NOx)	46	3035.694	5.809E+00	3.925E-02	5.770E+00	0.8269	6.978E+00	37,342	1.627E-02	4	4.067E-03
Decirio Deci	HCI (b)	36	566.555	8.485E-01	8.719E-01	-2.342E-02	0.8269	QN	37,342	QN	4	2
March Marc	Carbon Dioxide (CO ₂)	44	373927.200	6.844E+02	6.829E+02	1.494E+00	0.8269	1.807E+00	37,342	4.212E-03	4	1.053E-03
Interphase Metals 27 9692 207 1.089E + 01 I.089E + 01 I.089E + 01 II.089E + 02 III.089E + 02	Sulfur Dioxide (SO ₂)	2	375.232	9.990E-01	-9.235E-04	9.999E-01	0.8269	1.209E+00	37,342	2.819E-03	4	7.048E-04
Ling 27 9692_207 1,090E+01 NA (d) 1,099E+01 0,9373 1,161E+01 37,342 Ny 122 2,926 1,485E-02 NA (d) 1,485E-02 0,8973 1,161E+01 37,342 Ny 122 2,926 1,485E-02 NA (d) 2,965E-04 0,8973 3,161E-04 37,342 m 75 0,095 2,963E-04 NA (d) 2,965E-02 0,8973 3,161E-04 37,342 m 112 0,045 2,963E-04 NA (d) 2,075E-04 0,9373 3,161E-04 37,342 m 52 0,248 5,370E-04 NA (d) 2,075E-04 0,9373 3,289E-02 37,342 r 64 4,798 1,277E-02 NA (d) 1,277E-02 0,9373 1,392E-02 37,342 r 65 6,74 4,798 1,375E-02 NA (d) 1,37E-02 0,9373 1,23E-02 37,342 r 55 6,531 1,37E-03 NA (d) 1,137E-0												
Umm 27 9692_207 1.089E+01 1.089E+01 0.9373 1.161E+01 37.342 NY 122 2.926 1.485E-02 NA (d) 1.089E+01 0.9373 1.161E+01 37.342 NY 122 2.926 1.485E-02 NA (d) 2.963E-04 0.9373 3.161E-02 37.342 NA 137 5.727 3.264E-02 NA (d) 2.965E-04 0.9373 3.182E-02 37.342 Mm 112 0.160 5.991E-05 NA (d) 2.075E-04 0.9373 3.182E-02 37.342 Mm 4.78 2.075E-04 NA (d) 2.075E-04 0.9373 3.592E-04 37.342 F 4.78 1.277E-02 NA (d) 1.277E-02 0.9373 1.392E-03 37.342 Signm 2.4 4.798 1.277E-02 NA (d) 1.37E-01 0.9373 1.20E-03 37.342 Signm 5.5 6.13 1.37E-01 1.37E-01 0.9373 1.21E-03 37.342	Particulate-phase Metals											
ny 122 2.926 1.486E-02 NA (d) 1.486E-02 0.9373 1.584E-02 37.342 1 75 0.095 2.963E-04 NA (d) 2.963E-04 0.9373 3.161E-04 37.342 m 9 0.160 5.991E-05 NA (d) 5.901E-05 0.9373 3.161E-04 37.342 m 112 0.045 2.91E-05 NA (d) 5.901E-05 0.9373 3.161E-04 37.342 lum 52 0.0246 5.991E-05 NA (d) 5.306E-04 0.9373 5.214E-04 37.342 lum 52 0.246 5.306E-04 NA (d) 5.306E-04 0.9373 5.214E-04 37.342 lum 52 0.246 5.306E-04 NA (d) 1.277E-02 0.9373 1.589E-04 37.342 lum 207 0.174 1.499E-03 NA (d) 1.277E-02 0.9373 1.589E-04 37.342 sium 207 0.174 1.30E-03 NA (d) 1.137E-02 <	Aluminum	27	9692.207	1.089E+01	NA (d)	1.089E+01	0.9373	1.161E+01	37,342	2.708E-02	4	6.769E-03
137 137 132646-04 NA (d) 2.963E-04 0.9373 3.161E-04 37.342 137 13.2646-02 NA (d) 2.963E-04 0.9373 3.161E-04 37.342 137 13.2646-02 NA (d) 2.056E-04 0.9373 3.161E-04 37.342 142 0.045 2.075E-04 NA (d) 2.075E-04 0.9373 2.214E-04 37.342 143 0.045 2.075E-04 NA (d) 2.075E-04 0.9373 2.214E-04 37.342 144 143 1.276E-04 NA (d) 1.376E-04 0.9373 1.363E-04 37.342 158 0.137 3.366E-04 NA (d) 1.376E-04 0.9373 1.363E-04 37.342 158 0.146 1.277E-02 NA (d) 1.312E+01 0.9373 1.363E-02 37.342 158 0.463 1.312E+01 NA (d) 1.312E+01 0.9373 1.360E-02 37.342 158 0.463 1.376E-02 NA (d) 1.156E-02 0.9373 1.266E-02 37.342 159 ND ND NA (d) ND ND 0.9373 1.233E-02 37.342 150 ND ND NA (d) ND 0.9373 1.007E-02 37.342 150 ND ND NA (d) 1.566E-02 0.9373 1.007E-02 37.342 150 ND ND NA (d) 1.566E-02 0.9373 1.007E-02 37.342 150 ND ND NA (d) 1.566E-02 0.9373 1.007E-02 37.342 150 ND NA (d) 1.566E-03 0.9373 1.007E-02 37.342 150 NA (d) 1.566E-03 0.9373 1.007E-03 37.342 150 NA (d) 1.566E-03 0.9373 1.007E-03 37.342 150 NA (d) 1.566E-03 0.9373 1.007E-03 37.342 150 NA (d) 1.566E-05 0.9373 1.007E-05 37.342 150 NA (d) 1.566E-05 0.9373 1.007E-05 37.345 150 NA (d) 1.566E-05 0.9373 1.007E-05 37	Antimony	122	2.926	1.485E-02	NA (d)	1.485E-02	0.9373	1.584E-02	37,342	3.693E-05	4	9.232E-06
Main	Arsenic	75	0.095	2.963E-04	NA (d)	2.963E-04	0.9373	3.161E-04	37,342	7.369E-07	4	1.842E-07
11	Barium	137	5.727	3.264E-02	NA (d)	3.264E-02	0.9373	3.482E-02	37,342	8.118E-05	4	2.030E-05
Influence 112 0.045 2.075E-04 NA (d) 2.075E-04 0.9373 2.214E-04 37.342 Imm 52 0.248 5.370E-04 NA (d) 5.370E-04 0.9373 5.729E-04 37.342 r 64 4.798 1.277E-02 NA (d) 1.277E-02 0.9373 1.363E-02 37.342 sium 207 0.174 1.499E-03 NA (d) 1.277E-02 0.9373 1.363E-02 37.342 nese 207 0.174 1.312E+01 NA (d) 1.265E-02 0.9373 1.400E+01 37.342 nese 5.531 1.265E-02 NA (d) 1.137E-03 0.9373 1.235E-02 37.342 nm 79 ND NA (d) 1.137E-02 0.9373 1.235E-02 37.342 m 108 ND NA (d) 1.137E-02 0.9373 1.235E-02 37.342 m 108 ND NA (d) 1.55E-02 0.9373 1.235E-02 37.342 m </td <td>Beryllium</td> <td>6</td> <td>0.160</td> <td>5.991E-05</td> <td>NA (d)</td> <td>5.991E-05</td> <td>0.9373</td> <td>6.392E-05</td> <td>37,342</td> <td>1.490E-07</td> <td>4</td> <td>3.725E-08</td>	Beryllium	6	0.160	5.991E-05	NA (d)	5.991E-05	0.9373	6.392E-05	37,342	1.490E-07	4	3.725E-08
lum 52 0.248 5.370E-04 NA (d) 5.370E-04 0.9373 5.728E-04 37.342 r 64 4.798 1.277E-02 NA (d) 1.277E-02 0.9373 1.592E-04 37.342 sium 24 4.798 1.277E-02 NA (d) 1.277E-01 0.9373 1.599E-03 37.342 nese 55 5.531 1.312E+01 0.9373 1.400E+01 37.342 nous 59 0.463 1.137E+03 0.9373 1.400E+01 37.342 nous 59 0.463 1.137E-02 NA (d) 1.137E-02 0.9373 1.350E-02 37.342 nous 59 0.463 1.137E-02 NA (d) 1.137E-02 0.9373 1.215E-02 37.342 nous 79 ND ND NA (d) NA (d) ND 0.9373 ND 37.342 m 108 ND NA (d) NA (d) ND 0.9373 ND 37.342 m <td< td=""><td>Cadmium</td><td>112</td><td>0.045</td><td>2.075E-04</td><td>NA (d)</td><td>2.075E-04</td><td>0.9373</td><td>2.214E-04</td><td>37,342</td><td>5.161E-0/</td><td>4</td><td>1.290E-07</td></td<>	Cadmium	112	0.045	2.075E-04	NA (d)	2.075E-04	0.9373	2.214E-04	37,342	5.161E-0/	4	1.290E-07
Signature	Chromium	52	0.248	5.370E-04	NA (d)	5.370E-04	0.9373	5.729E-04	37,342	1.338E-U6	4	3.339E-07
Colored Colo	Cobalt	65	0.137	3.366E-04	NA (d)	3.366E-04	0.93/3	3.592E-04	37,342	8.3/3E-0/	4	7.093E-07
sium 207 0.174 1.499E-03 NA (g) 1.499E-03 0.3373 1.599E-03 37,342 nese 55 1.312E+01 NA (g) 1.312E+01 0.9373 1.400E-01 37,342 nese 55 0.463 1.265E-02 NA (g) 1.137E-02 0.9373 1.200E-02 37,342 nons 59 0.463 1.155E-02 NA (g) 1.137E-02 0.9373 1.213E-03 37,342 nm 79 ND ND NA (g) 1.155E-02 0.9373 1.213E-02 37,342 nm 79 ND ND NA (g) ND 0.9373 ND 37,342 m 204 ND NA (g) ND 0.9373 ND 37,342 n 56 3.491 9,439E-03 0.9373 1.007E-02 37,342 n 70 ND NA (g) NA (g) NB 0.9373 1.007E-02 37,342 n 1.580E-06 0.9373	Copper	8	4.798	1.277E-02	NA (d)	1.277E-02	0.93/3	1.303E-02	34,342	3.1775-05	4	7.342E-00
sium 24 1345.74 1.312E+01 NA (d) 1.312E+01 0.9373 1.400E+01 37,342 nese 55 5.531 1.285E-02 NA (d) 1.265E-02 0.9373 1.33E-02 37,342 nons 39 0.463 1.137E-03 NA (d) 1.137E-03 0.9373 1.233E-02 37,342 nn 79 ND ND NA (d) 1.155E-02 0.9373 1.233E-02 37,342 nn 108 ND ND NA (d) NA (d) ND 0.9373 ND 37,342 m 204 ND NA (d) NA (d) NA (d) 0.9373 ND 37,342 NA 30 30 30 30 30 37,342 NA 30 <th< td=""><td>Lead</td><td>207</td><td>0.174</td><td>1.499E-03</td><td>NA (d)</td><td>1.499E-03</td><td>0.9373</td><td>1.599E-03</td><td>37,342</td><td>3.728E-06</td><td>4</td><td>9.320E-07</td></th<>	Lead	207	0.174	1.499E-03	NA (d)	1.499E-03	0.9373	1.599E-03	37,342	3.728E-06	4	9.320E-07
1.265E-02	Magnesium	24	13145.744	1.312E+01	NA (d)	1.312E+01	0.9373	1.400E+01	37,342	3.264E-UZ	4	8.1615-03
1.00	Manganese	55	5.531	1.265E-02	NA (d)	1.265E-02	0.9373	1.350E-02	37,342	3.147E-05	4	7.869E-06
Inchris 31 8.959 1.155E-02 Invited on the control of the control	Nickel	59	0.463	1.137E-03	NA (d)	1.137E-03	0.9373	1.213E-03	37,342	2.829E-06	4	7.072E-07
Imm 79 ND NA (d) ND 0.9373 ND 37.342 Institute ND ND NA (d) ND 0.9373 ND 37.342 Institute ND ND NA (d) NA (d) 9.439E-03 0.9373 1.007E-02 37.342 Institute NA (d) 1.580E-06 0.9373 1.680E-06 37.342	Phosphorus	31	8.959	1.155E-02	NA (d)	1.155E-02	0.9373	1.233E-02	37,342	2.874E-05	4	7.184E-06
108 ND NA (d) ND 0.9373 ND 37.342 1	Selenium	79	QN	ND	NA (d)	2	0.9373	QN	37,342	Q	4	QN
m 204 ND NA (d) NA (d) 0.9973 ND 97.342 NJ (e) 0.9973 1.695E-06 97.342 NJ (e) 1.580E-06 0.9973 1.695E-06 97.342	Silver	108	QN	QN	NA (d)	QN	0.9373	2	37,342	Q	4	Q
65 3.491 9.439E-03 NA (d) 9.439E-03 0.9373 1.007E-02 37,342 201 0.000 1.580E-06 NA (d) 1.580E-06 0.9373 1.685E-06 37.342	Thallium	204	QN	QN	NA (d)	QN	0.9373	Q	37,342	Q	4	Q
7.342 0.000 1.580E-06 0.9373 1.685E-06 37.342	Zinc	99	3.491	9.439E-03	NA (d)	9.439E-03	0.9373	1.007E-02	37,342	2.348E-05	4	5.869E-06
	Mercury	201	0.000	1.580E-06	NA (d)	1.580E-06	0.9373	1.685E-06	37,342	3.929E-09	4	9.821E-10

a Estimated from tracer data as presented in Volume IV.

b HCVCI₂ levels were too low to be reliably measured.

c Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD. Presence questionable - reported at similar levels in samples and blanks.

d Insufficient material to analyze.

TABLE A-5. AEC - TSP, PM₁₀, HCI/CI₂, DIOXIN/FURAN, CO, CO₂, NO_x, SO₂, AND METALS RUN NO. 2 DATA FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

					1000000						
		Avecana	Average	Background -	Corrected	Dilinton	Corrected		Sample Total		Emission
	Molecular	Concentration -	Concentration -	Concentration,	Concentration -	Correction	Concentration -	Initial Plume	Material - Run	Number of	Factor - Run
Compound	Weight	Run 2, ppbv	Run 2, mg/m	mg/m³	Run 2, mg/m³	Factor (a), %	Run 2, mg/m	Volume, ft	2, lb	tems	2, lb/item
1											
Particulate			1.665E+02	-6.288E-02	1.666E+02	0.9377	1.776E+02	35,643	3.952E-01	4	9.881E-02
PM ₁₀			1.954E+02	-8.049E-01	1.962E+02	0.9682	2.027E+02	35,643	4.509E-01	4	1.127E-01
Hydrogen Chloride (HCI)/Chlorine (Cl.)											
HCI (b)	36	QN	QV	ON	ON	0.9085	QN	35,643	Q	4	2
Cl ₂ (b)	7.	4.944	1.458E-02	3.877E-03	1.070E-02	0.9085	1.178E-02	35,643	2.622E-05	4	6.554E-06
									,		
Dioxin/Furan										-	
Dioxin TEQ (c)	•	•	2.571E-10	Q	2.571E-10	0.9085	2.830E-10	35,643	6.297E-13	4	1.574E-13
Continuous Emissions Monitoring (CEM) System	ystem								, 0 2000		.0.2000
Carbon Monoxide (CO)	28	275.040	3.204E-01	9.373E-03	3.110E-01	0.8281	3.756E-01	35,643	6.356⊏-04	4	Z.089E-04
Nitrogen Oxide (NOx)	46	5320.853	1.018E+01	6.595E-02	1.012E+01	0.8281	1.222E+01	35,643	2.718E-02	4	6.796E-03
HCI (b)	36	-525.452	-7.869E-01	4.766E-01	-1.264E+00	0.8281	Q	35,643	2	4	2
Carbon Dioxide (CO ₂)	44	382932.900	7.009E+02	6.906E+02	1.030E+01	0.8281	1.244E+01	35,643	2.767E-02	4	6.918E-03
Sulfur Dioxide (SO ₂)	2	109.279	2.909E-01	-2.690E-03	2.936E-01	0.8281	3.546E-01	35,643	7.890E-04	4	1.973E-04
Particulate-phase Metals											
Aluminum	27	15374.726	1.727E+01	NA (d)	1.727E+01	0.9377	1.842E+01	35,643	4.098E-02	4	1.024E-02
Antimony	122	6.955	3.530E-02	NA (d)	3.530E-02	0.9377	3.764E-02	35,643	8.376E-05	4	2.094E-05
Arsenic	75	0.126	3.924E-04	NA (d)	3.924E-04	0.9377	4.184E-04	35,643	9.311E-07	4	2.328E-07
Barium	137	11.640	6.634E-02	NA (d)	6.634E-02	0.9377	7.075E-02	35,643	1.574E-04	4	3.936E-05
Beryllium	6	0.093	3.472E-05	NA (d)	3.472E-05	0.9377	3.703E-05	35,643	8.239E-08	4	2.060E-08
Cadmium	112	0.080	3.740E-04	NA (d)	3.740E-04	0.9377	3.988E-04	35,643	8.874E-07	4	2.219E-07
Chromium	52	0.480	1.038E-03	NA (d)	1.038E-03	0.9377	1.107E-03	35,643	2.464E-06	4	6.160E-07
Cobalt	59	0.209	5.136E-04	NA (d)	5.136E-04	0.9377	5.477E-04	35,643	1.219E-06	4	3.047E-07
Copper	8	12.680	3.376E-02	NA (d)	3.376E-02	0.9377	3.600E-02	35,643	8.017E-05	4	Z.003E-05
Lead	207	0.240	2.065E-03	NA (d)	2.065E-03	0.9377	2.203E-03	35,643	4.901E-06	4	1.225E-06
Magnesium	24	20360.000	2.033E+01	NA (d)	2.033E+01	0.9377	2.168E+01	35,643	4.824E-02	4	1.206E-02
Manganese	55	8.321	1.904E-02	NA (d)	1.904E-02	0.9377	2.030E-02	35,643	4.518E-05	4	1.129E-05
Nickel	65	0.799	1.962E-03	NA (d)	1.962E-03	0.9377	2.092E-03	35,643	4.656E-06	4	1.164E-06
Phosphorus	31	21.507	2.773E-02	NA (d)	2.773E-02	0.9377	2.958E-02	35,643	6.581E-05	4	1.645E-05
Selenium	79	0.103	3.371E-04	NA (d)	3.371E-04	0.9377	3.595E-04	35,643	7.999E-07	4	2.000E-07
Silver	108	QN	Q	NA (d)	QN	0.9377	QN	35,643	Q	4	2
Thallium	204	QN	Q	NA (d)	QN	0.9377	ON	35,643	Q	4	2
Zinc	99	8.346	2.257E-02	NA (d)	2.257E-02	0.9377	2.407E-02	35,643	5.355E-05	4	1.339E-05
Mercury	201	0.000	2.816E-06	NA (d)	2.816E-06	0.9377	3.004E-06	35,643	6.683E-09	4	1.6/1E-09

a
Estimated from tracer data as presented in Volume IV.
b
HCI/Cl₂ levels were too low to be reliably measured.

c Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD. Presence questionable - reported at similar levels in samples and blanks. d

Insufficient material to analyze.

TABLE A-6. AEC - DIOXINFURAN COMPOSITE RUN NO. 1-2 DATA FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

111.00 · · ·	_	T	Т	_
Corrected Emission Factor - Run 2, ib/item			Q	
Number of Items			4	
Sample Total Material - Run 1-2, ib			Q	
Initial Plume Volume, ft*			36,492	
Dilution Corrected Correction Correction Factor (a), % Run 1-2, mg/m³			9	
Dilution Correction Factor (a), %			0.8941	
Background Corrected Concentration - Run 1-2, mg/m³			QN	
Background - Concentration, mg/m³			QN	
Average Concentration - Run 1-2, mg/m³			ND	
Average Concentration - Run 1-2, ppbv			٠	
Molecular Weight				
Compound		Jioxin/Furan	Jioxin TEQ (b)	

a Estimated from tracer data as presented in Volume IV. b Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD. Presence questionable - reported at similar levels in samples and blanks.

TABLE A-7. AEC - VOC DATA EVALUATION FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

Compound (a)	Average Concentration - Run 1, mg/m³	Average Concentration - Run 2, mg/m³	Average Concentration - Run 1-2, mg/m³	Average Background - Concentration, mg/m²	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit • Concentration, mg/m³	Background Evaluation Criteria	Minimum Detection Limit Evaluation Criteria	Background Evaluation Notes	Minimum Detection Limit Evaluation Notes
Total Manager Line Control of the Co										
TOTAL NORMETHAND HYDROCARDONS (INMINC)	6.430E-02	1.189E-01	9.160E-02	2.310E-02	1.000E-04	1.000E-04	3.97	916.00	O	A
Volatile Organic Compounds (VOCs)	20 1000 1	1000	20 00							
	5.000E-03	6.400E-U3	5./UUE-U3	2.900E-03	1.000E-04	1.000E-04	1.97	57.00	۵.	∢ .
Anatriana	8.300E-03	1.720E-02	1.275E-02	1.500E-04	1.000E-04	1.000E-04	85.00	127.50	∢ .	۷.
Acetylene	9.000E-03	1.690E-02	1.295E-02	9.500E-04	1.000E-04	1.000E-04	13.63	129.50	∢ (۷.
Propene	2 900E-03	5.500E-03	Z.400E-03	1.900E-03	1.000E-04	1.000E-04	1.26	24.00	۰	∢ <
i-Butane	3.000E-04	6 000E-04	4 500E-03	4 000E-04	1 000E-04	1 000E-04	43.00	45.00	3 6	داد
i-Butene	2.000E-04	1.300E-03	7.500E-04	ND	1 000E-04	1 000E-04	00.01	7.50	۵	۵
1-Butene	4.000E-04	6.000E-04	5.000E-04	2	1.000E-04	1.000E-04	10.00	5.00	4	9 6
1,3-Butadiene	2.000E-04	3.000E-04	2.500E-04	2	1.000E-04	1.000E-04	10.00	2.50	< 4	S
n-Butane	8.000E-04	9.000E-04	8.500E-04	8.500E-04	1.000E-04	1.000E-04	1.00	8.50	۵	8
trans-2-Butene	5.000E-04	1.000E-03	7.500E-04	Q	1.000E-04	1.000E-04	10.00	7.50	V	8
2,2-Dimethylpropane	QN	QN	QN	Q	1.000E-04	1.000E-04	Q	Q	ш	ш.
cis-2-Butene	1.000E-04	2.000E-04	1.500E-04	MD	1.000E-04	1.000E-04	10.00	1.50	٧	۵
3-Methyl-1-butene	Q	QN	QN	QN	1.000E-04	1.000E-04	QN	QN	ц.	L.
i-Pentane	5.000E-04	4.000E-04	4.500E-04	3.000E-04	1.000E-04	1.000E-04	1.50	4.50	۵	O
1-Pentene	QV	Q	QN	QN	1.000E-04	1.000E-04	QN	QN	F	ш
2-Methyl-1-butene	Ð	1.000E-04	1.000E-04	Q	1.000E-04	1.000E-04	10.00	1.00	Y	Q
n-Pentane	3.000E-04	4.000E-04	3.500E-04	3.000E-04	1.000E-04	1.000E-04	1.17	3.50	۵	ပ
Isoprene	Q.	2	9	2.000E-04	1.000E-04	1.000E-04	Q	2	ட	u.
trans-2-Pentene	Q	2	2	Q	1.000E-04	1.000E-04	Q	2	Щ	ш
Cis-z-rentene	2 9	Q	9	Q.	1.000E-04	1.000E-04	2	2	u.	L.
2-Metry-2-butene	2	Q.	2	Q	1.000E-04	1.000E-04	Q	2	Ł	ц
Ciclonomiane	2 2	Q S	2	4.000E-04	1.000E-04	1.000E-04	Q	2	L.	LL
4-Mothyl. pontone	2 2	2 2	2 2	2 5	1.000E-04	1.000E-04	2	2	ı	4
Cyclopentane	2 2	2 2	2 5	ON CN	1.000E-04	1.000E-04	22	2 2	1 4	1
2,3-Dimethylbutane	2	Q	S	CN	1 000E-04	1 000E-04		2 2	- 4	_
cis-4-Methyl-2-pentene	Q	9	9	Q	1,000E-04	1.000E-04	Q	Q	. ц	L
2-Methylpentane	2.000E-04	2.000E-04	2.000E-04	1.500E-04	1.000E-04	1.000E-04	1.33	2.00		. 0
3-Methylpentane	QN	QN	QN	1.000E-04	1.000E-04	1.000E-04	QN	Q.	4	ш
2-Methyl-1-pentene	QN	QN	QN	QN	1.000E-04	1.000E-04	QN	ð	ш	L
1-Hexene	Q	Q	QN	QN	1.000E-04	1.000E-04	QN	QV	ட	L.
n-Hexane	2.000E-04	2.000E-04	2.000E-04	1.000E-04	1.000E-04	1.000E-04	2.00	2.00	0	ပ
trans-2-Hexene	Q	Q	Q	Q	1.000E-04	1.000E-04	ND	QN	F	Ь
2-Methyl-2-pentene	Q.	2	Q	Q	1.000E-04	1.000E-04	Q	QN	ட	L
cis-2-Hexene	QN	Q	Q	QN	1.000E-04	1.000E-04	2	Q	u.	L.
Methylcyclopentane	1.000E-04	1.000E-04	1.000E-04	1.000E-04	1.000E-04	1.000E-04	1.00	1.00	Q	٥
2,4-Dimethylpentane	1.000E-04	1.000E-04	1.000E-04	1.000E-04	1.000E-04	1.000E-04	1.00	1.00	۵	۵
Benzene	2.100E-03	3.800E-03	2.950E-03	5.500E-04	1.000E-04	1.000E-04	5.36	29.50	В	¥
Cyclonexane	2	Q	Q	1.000E-04	1.000E-04	1.000E-04	2	Q	ш	u.
2.2 Dimoshi Income	2 5	2	Q.	1.000E-04	1.000E-04	1.000E-04	2	Q	4	L.
2 Vethalingipelitaire	24	2 5	2	1.000E-04	1.000E-04	1.000E-04	2	QN	щ	ш
3-Methylnexane	QN	Q.	2	2.500E-04	1.000E-04	1.000E-04	2	Q	ш.	L

TABLE A-7. AEC - VOC DATA EVALUATION FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

				Average	Average Maximum	Average Minimum		Minimum		Minimum
Commonted (a)	Average Concentration - Run 1. mo/m²	Average Concentration - Run 2. ma/m³	Average Concentration - Run 1-2. ma/m³	Background • Concentration, ma/m³	Detection Limit - Concentration, mg/m³	Detection Limit - Concentration, mg/m³	Background Evaluation Criteria	Detection Limit Evaluation Criteria	Background Evaluation Notes	Defection Limit Evaluation Notes
2.2.4-Trimethylpentane	5.000E-04	7.000E-04	6.000E-04	2.000E-04	1.000E-04	1.000E-04	3.00	9009	S	В
n-Heptane	Q	2.000E-04	2.000E-04	1.000E-04	1.000E-04	1.000E-04	2.00	2.00	ပ	ပ
2,4,4-Trimethyl-1-pentene	Q	QN	QN	2.000E-04	1.000E-04	1.000E-04	ND	QN	u.	ட
Methylcyclohexane	Q	QN	S	QN	1.000E-04	1.000E-04	QN	QN	ч	Ŧ
2,4,4-Trimethyl-2-pentene	QN	QV.	Q	QN	1.000E-04	1.000E-04	QN	QN	F	L
2.5-Dimethylhexane	Q	Q	QN	Q.	1.000E-04	1.000E-04	QN	QN	F	ıL
2.4-Dimethylhexane	Q	QN	Q	QN	1.000E-04	1.000E-04	QN	QN	ц	Ŀ
2,3,4-Trimethylpentane	Q	1.000E-04	1.000E-04	1.000E-04	1.000E-04	1.000E-04	1.00	1.00	D	O
Toluene	1.300E-03	1.900E-03	1.600E-03	5.000E-04	1.000E-04	1.000E-04	3.20	16.00	C	¥
2,3-Dimethylhexane	Q	QN	QN	QN	1.000E-04	1.000E-04	QN	QN	Ь	Œ.
2-Methylheptane	Q	QN	Q	QN	1.000E-04	1.000E-04	QN	QN	ш	ட
3-Ethylhexane	QN	QN	QN	QN	1.000E-04	1.000E-04	QN	Q	Œ.	u.
2,2-Dimethylheptane	QV	QN	QN	QN	1.000E-04	1.000E-04	QN	QN	L	u.
2,2,4-Trimethylhexane	Q	QN	Q	QN	1.000E-04	1.000E-04	QN	QN	F	u.
n-Octane	1.000E-04	QN	1.000E-04	1.000E-04	1.000E-04	1.000E-04	1.00	1.00	٥	۵
Ethytcyclohexane	ON	QN	QN	ON	1.000E-04	1.000E-04	QN	Q	Т	ட
Ethylbenzene	3.000E-04	5.000E-04	4.000E-04	1.000E-04	1.000E-04	1.000E-04	4.00	4.00	၁	O
m-Xylene & p-Xylene	8.000E-04	8.000E-04	8.000E-04	5.500E-04	1.000E-04	1.000E-04	1.45	8.00	٥	80
Styrene	4.000E-04	Q	4.000E-04	QV	1.000E-04	1.000E-04	10.00	4.00	A	ال
o-Xylene	4.000E-04	7.000E-04	5.500E-04	2.000E-04	1.000E-04	1.000E-04	2.75	5.50	S	20 0
n-Nonane	2.000E-04	5.000E-04	3.500E-04	1.000E-04	1.000E-04	1.000E-04	3.50	3.50	O L	U I
i-Propylbenzene	QN	Q	Q	Q	1.000E-04	1.000E-04		Q.	.	۱ ا
n-Propylbenzene	1.000E-04	1.000E-04	1.000E-04	1.000E-04	1.000E-04	1.000E-04	1.00	1:00	٥	٥
p-Ethyltoluene	5.000E-04	5.000E-04	5.000E-04	3.000E-04	1.000E-04	1.000E-04	1.67	5.00	a	n C
m-Ethyltoluene	3.000E-04	3.000E-04	3.000E-04	1.000E-04	1.000E-04	1.000E-04	200	3.00	ی د	ی د
1,3,5-Trimethylbenzene	4.000E-04	4.000E-04	4.000E-04	2.000E-04	1.000E-04	1.000E-04	2.00	00.4	ی د	ي د
o-Ethyltoluene	4.000E-04	3.000E-04	3.500E-04	1.000E-04	1.000E-04	1.000E-04	3.50	3.50)	,
1.2.4-Trimethylbenzene & sec-Butylbenzene	9.000E-04	1,100E-03	1.000E-03	3.000E-04	1.000E-04	1.000E-04	3.33	10.00	ပ	∢
n-Decane	2.000E-04	2	2.000E-04	1.000E-04	1.000E-04	1.000E-04	2.00	2.00	ပ	ပ
alpha-Pinene	QN	S	Q	QN	1.000E-04	1.000E-04	QN	QN	F	LL.
beta-Pinene	QN	ON	QN	QN	1.000E-04	1.000E-04	Q	Q	ட	ட
delta 3-Carene	QN	QN	QN	QN	1.000E-04	1.000E-04	QN	QN	щ	ட
d-Limonene	QN	Q	Q	Q	1.000E-04	1.000E-04	2	QN	ı.	L
MTBE	Q	Q	ND	9	1.000E-04	1.000E-04	2	Q	u.	L.
ETBE	Q	2	Q	2	1.000E-04	1.000E-04	Q.	QN S	1	١,
Dichlorodifluoromethane	1.485E-03	9.456E-04	1.215E-03	9.510E-04	4.992E-04	4.992E-04	87.1	2.43	اد	ی ر
Methylchlonde	2	2 2	2 2	2 2	2.080E-04	2.080E-04	2 2	22		
Dichiorotetranuoroethane	S S	2 2	2 2	22	7.1145-04	2 621E-04	2 2	2 2	- -	_ L
	2 034E-04	3 051E-04	2 543E.04	2 2	2.02.1C-04	2.22.12.04	00 01	1.13	. ▼	. 0
Methylbromide	GN	GN	GN	Q	3.952E-04	3.952E-04	2	Q.	ш	u.
Ethylchloride	8	2	2	2	2.683E-04	2.683E-04	QN	QN	ш	ш
Trichloromonofluoromethane	2.435E-03	2.447E-03	2.441E-03	2.527E-03	5.699E-04	5.699E-04	0.97	4.28	F	၁
Vinylidenechloride	QV	QN	QV	QN	4.035E-04	4.035E-04	QN	QN	Ŧ	Ŧ.
Methylenechloride	9.024E-03	4.652E-03	6.838E-03	6.733E-04	3.536E-04	3.536E-04	10.16	19.34	A	Ą
Allylchloride	QN	Q	2	Ð	3.182E-04	3.182E-04	Q	Q	LL S	L (
1,1,2-Trichloro-1,2,2-trifluoroethane	7.574E-04	8.358E-04	7.966E-04	8.874E-04	7.821E-04	7.821E-04	06:0	1.02	_	0
1,1-Dichloroethane	Q	ND	ON	ON.	4.118E-04	4.118E-04	ON	NU	L	

TABLE A-7. AEC - VOC DATA EVALUATION FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

Compound (a) 1.2-Dichloroethene Chloroform I.2-Dichloroethane Methylchloroform Benzane Carbonietrachloride 1.2-Dichloroptropane Trichloroethylene ist 1.3-Dichloro-1-propene	Concentration	Concentration -	Concentration -	Concentration,	Detection Limit - Concentration,	S G	Background Evaluation	Detection Limit Evaluation	Background Evaluation	Detection Limit Evaluation
11.2-Dichloroethene Chloroform I.2-Dichloroethane Methylchloroform Benzene Carbonietrachloride 11.2-Dichloroethylene	Run 1, mg/m²	Run 2, mg/m³	Run 1-2, mg/m³	mg/m²	mg/m³	mg/m²	Criteria	Criteria	Notes	Notes
Chlorotom Meta-Dichloroethane Meta-Vichloroform Benzene Carbonletrachloride Ti-2-Dichloropropane Ti-chloroethylene cis 1.3-Dichloro-1-probene	QN	QN	QN	QN	4.035E-04	4.035E-04	ON	ΩN	F	F
I .z-Dichlorotentare Benzene Carbonletrachloride 1.2-Dichloropropane cis 1.3-Dichlorot-propene	Q.	2	2	Q	4.950E-04	4.950E-04	2	2	L I	L .
Benzene Garbontetrachloride 1.2-Dichloropropane cis 1.3-Dichloro-Incoene	ND SOOF 64	ND 2020	NO SECTION	ND 248F	4.118E-04	4.118E-04	2,	200	٠ ٥	-
Carbonetrachloride 1.2-Dichloropropane Trichloroethylene	9.300E-04	3.57.0E-04	3.001E-04	5.403E-04	3.2355-04	3.2325-04	1.01	0.04	ء د	
1.2-Dichloropropane Trichloroethylene cis 1.3-Dichloro-1-propene	7.429E-04	7.876F-04	7 652F-04	7 138F-04	6.406E-04	6.406F-04	1.07	1 19		
Trichloroethylene cis 1.3-Dichloro-1-propene	QN	QN	ON	ON ON	4.701E-04	4.701E-04	GN CN	CZ.	2 1	7 11
cis 1.3-Dichloro-1-propene	2	2	2	200	5.533E-04	5.533E-04	20	2	. 4	L
	2	QV	2	Q	4.618E-04	4.618E-04	2	2	. ц.	
trans 1,3-Dichloro-1-propene	QN	QN	QN	QN	4.618E-04	4.618E-04	Q	QN	L	L
1,1,2-Trichloroethane	QN	DN	ON	ON	5.533E-04	5.533E-04	QN	QN	u	ш
Toluene	1.322E-03	1.933E-03	1.627E-03	5.086E-04	3.827E-04	3.827E-04	3.20	4.25	၁	၁
1,2-Dibromoethane	Q	Q	ON	QN	7.821E-04	7.821E-04	ND	QN	E	F
Perchloroethylene	Q	QN	QN	QN	6.906E-04	6.906E-04	QN	QN	£	H
Chlorobenzene	Q	Q	2	Q	4.701E-04	4.701E-04	Q	Q	ш	ш
Ethylbenzene	4.606E-04	7.676E-04	6.141E-04	Q	6.656E-04	6.656E-04	10.00	0.92	A	ш
m&p-Ayiene	9.7155-04	1.094E-03	1.033E-03	5.045E-04	4.410E-04	4.410E-04	2.05	2.34	٥	S
Styrene	2	2	2	2	4.326E-04	4.326E-04	9	Q	u l	L.
1,1,2,2-1 etrachloroethane	ON C	ON C	ON I	2	6.989E-04	6.989E-04	Q	2	ш	щ.
o-Ayiene	4.068E-04	7.120E-04	5.594E-04	2	4.410E-04	4.410E-04	10.00	1.27	4	۵
p-Emylioluene	3.110E-04	3.1 /UE-U4	3.140E-04	2	4.992E-04	4.992E-04	10.00	0.63	۷ i	4
1,3,5-immemyibenzene	23,010	NO.	ON I	ON L	4.992E-04	4.992E-04	2	Q.	.	٠,
Benzylchloride	/./ ISE-04	7.311E-04	7.515E-04	5.401E-04	4.992E-04	4.992E-04	95.1	1.51	٦	ماً
m-Dichlorobenzene	2 2	2 5	2 5	2 2	3.203E-04	3.203E-04	25		L	
p-Dichlorobenzene	S	2 5	22	2 5	6 115E-04	6 115E-04	2 5	2 2	_	4
o-Dichlorobenzene	2	S	2	2 5	6 115E-04	6 115F.04	2 2	2 2	_	L
1.2.4-Trichlorobenzene	9	Q	S	S	7 530F-04	7.530F-04	S	2	. u	u
Hexachlorobutadiene	2	2	2	9	1.086E-03	1.086E-03	CN	S	. ш	. L
Phenylacetylene	2	2	2	Q	4.243E-04	4.243F-04	CN	S	. 4	L L
Indane	Q	Q	QV	Q	4.909E-04	4.909E-04	Q	2	L	L
2,3-Dihydro-1-methyl-1H-indene	ON	QN	QN	ND	5.491E-04	5.491E-04	QN	QN	ų.	L.
2,3-Dihydro-4-methyl-1H-indene	Q	2	QN	QN	5.491E-04	5.491E-04	QN	QN	F	щ
Naphthalene	9.807E-04	9.847E-04	9.827E-04	5.793E-04	5.325E-04	5.325E-04	1.70	1.85	O	D
2-Methylnaphthalene	₽	2	Q	Q	5.907E-04	5.907E-04	QN	QN	–	F
1-Methylnaphthalene	2	Q	Q	QV	5.907E-04	5.907E-04	QN	· QN	Ц	ıL
Cyanogen	Q	2	2	Q	2.163E-04	2.163E-04	2	Q	ш	щ
Methylnitrite	1.062E-03	1.759E-03	1.411E-03	2	2.538E-04	2.538E-04	10.00	5.56	A	В
Acetonitrie	8.923E-05	1.547E-04	1.220E-04	Q	1.706E-04	1.706E-04	10.00	0.72	A	ш
Acrylonitrile	9.772E-04	9	9.772E-04	QN	2.205E-04	2.205E-04	10.00	4.43	A	O
Nitromethane	1.037E-03	1.401E-03	1.219E-03	Q	2.538E-04	2.538E-04	10.00	4.80	¥	O
Propanenitrile	9	1.324E-04	1.324E-04	Q	2.288E-04	2.288E-04	10.00	0.58	Y	IL.
2-Methylpropanenitrile	Q	Q	Q	Q	2.870E-04	2.870E-04	9	ð	L.	F
Pentanenitrile	9	Q	ON	QN	3.453E-04	3.453E-04	ND	ON	F	ш
Hexanenitrile	₽	Q	QN	QN	4.035E-04	4.035E-04	ON	QN	F	L.
Benzonitrile	Q	Q	QN	QN	4.285E-04	4.285E-04	QN	ON	ь	L
2-Nitrophenol	Q	Q	Q	2	5.782E-04	5.782E-04	QN	QN	F	L
Acrolein	1.985E-03	3.545E-03	2.765E-03	Q	2.330E-04	2.330E-04	10.00	11.87	A	Α
Acetone	6.171E-03	1.154E-02	8.855E-03	8.869E-03	2.330E-04	2.330E-04	1.00	38.01	L	4

TABLE A-7. AEC - VOC DATA EVALUATION FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

						A second				
	Average	Average	Average	Background -	Detection Limit -	Detection Limit	Background	Minimum Detection Limit	Background	Minimum Detection Limit
Compound (a)	Concentration - Run 1, ma/m³	Concentration - Run 2, mg/m³	Concentration - Run 1-2, mg/m³	Concentration, mg/m³	Concentration, mg/m³	Concentration, mg/m³	Evaluation Criteria	Evaluation Criteria	Evaluation Notes	Evaluation Notes
1-Hydroxy-2-propanone	4.819E-03	2.717E-04	2.545E-03	1.136E-03	3.078E-04	3.078E-04	2.24	8.27	၁	В
Furan	3.341E-04	7.307E-04	5.324E-04	Q	2.829E-04	2.829E-04	10.00	1.88	A	D
2-Propanol	Q	QN	Q	1.513E-02	2.496E-04	2.496E-04	ND	ON	F	ıĿ
2-Methylpropanal	Q	QN	2	Q	3.078E-04	3.078E-04	ON	QN	F	ıL
1-Propanol	ON	QN	ON	ND	2.496E-04	2.496E-04	ON	ON	Ŧ	L.
Methacrolein	ON	QN	ON	ND	2.912E-04	2.912E-04	ON	QV	ш	u.
Methyl-vinyl Ketone	2.847E-04	4.865E-04	3.856E-04	QN	2.912E-04	2.912E-04	10.00	1.32	¥	۵
МТВЕ	ND	QN	QN	ON	3.661E-04	3.661E-04	QN	QN	ц	ц
2,3-Butanedione	ON	QN	ON	QN	3.578E-04	3.578E-04	Q	Q	ш	щ
Butanal	2.638E-04	2.534E-04	2.586E-04	2.322E-04	2.995E-04	2.995E-04	1.11	0.86	D	Щ
2-Butanone	1.322E-03	1.956E-03	1.639E-03	7.609E-04	2.995E-04	2.995E-04	2.15	5.47	ပ	В
2-Methyl-1,3-dioxolane	Q	QN	QN	QN	3.661E-04	3.661E-04	ON	QN	F	ட
2-Methylfuran	QV	Q.	QN	QN	3.411E-04	3.411E-04	QN	QN	F	ш
Tetrahydrofuran	S	Q	Q	Q	2.995E-04	2.995E-04	QN	ON	F	ıL
trans-2-Butenal	2.828E-04	4.303E-04	3.566E-04	Q	2.912E-04	2.912E-04	10.00	1.22	A	D
Acetic Acid	2.217E-03	1.757E-03	1.987E-03	2.458E-03	2.496E-04	2.496E-04	0.81	7.96	F	В
1-Butanol	Q	QN	QN	ON	3.078E-04	3.078E-04	ON	ND	F	±
2-Pentanone	QN	2.863E-04	2.863E-04	2	3.578E-04	3.578E-04	10.00	0.80	A	L.
Pentanal	8.189E-04	9.410E-04	8.800E-04	1.022E-03	3.578E-04	3.578E-04	0.86	2.46	ч	၁
1,4-Dioxane	QN	QN	QN	QN	3.661E-04	3.661E-04	QN	QN	F	ш
Methyl Methacrylate	QN	g	Q	QN	4.160E-04	4.160E-04	QN	QN	F	ч
Cyclopentanone	QN	QN	QN	QN	3.494E-04	3.494E-04	QN	ND	F	ıL
Hexanal	5.802E-04	4.954E-04	5.378E-04	5.402E-04	4.160E-04	4.160E-04	1.00	1.29	ъ	0
2-Furaldehyde	1.638E-03	2.585E-03	2.111E-03	QV	3.994E-04	3.994E-04	10.00	5.29	A	В
Cyclohexanone	QN	QN	ON	ON	4.077E-04	4.077E-04	QN	Q	u.	u.
Heptanal	5.966E-04	5.343E-04	5.654E-04	6.054E-04	4.742E-04	4.742E-04	0.93	1.19	u.	۵
2-Butoxyethanol	6.911E-04	ON	6.911E-04	7.468E-04	4.909E-04	4.909E-04	0.93	1.41	u.	۵
Benzaldehyde	2.153E-03	2.135E-03	2.144E-03	9.684E-04	4.410E-04	4.410E-04	2.21	4.86	ပ	ပ
6-Methyl-5-hepten-2-one	ON	QN	QN	1.540E-03	5.242E-04	5.242E-04	Q	Q	ட	ட
Octanal	1.295E-03	1.120E-03	1.208E-03	1.242E-03	5.325E-04	5.325E-04	0.97	2.27	ш	O
Benzofuran	QN	3.581E-04	3.581E-04	QN	4.909E-04	4.909E-04	10.00	0.73	4	ட
2-Ethyl-1-hexanol	QN	QN	QN	QN	4.992E-04	4.992E-04	DN	QN	Œ.	ц
Acetophonone	3.675E-04	2.712E-04	3.193E-04	QN	4.992E-04	4.992E-04	10.00	0.64	A	ı
Nonanal	1.894E-03	1.301E-03	1.597E-03	1.812E-03	5.907E-04	5.907E-04	0.88	2.70	L.	ပ
Decanal	1.933E-03	1.111E-03	1.522E-03	2.042E-03	6.490E-04	6.490E-04	0.75	2.35	4	ပ
Carbonyl Sulfide	4.284E-04	4.555E-04	4.419E-04	1.790E-04	2.496E-04	2.496E-04	2.47	1.77	ပ	O
Carbon Disulfide	7.394E-02	1.051E-01	8.951E-02	6.089E-04	3.162E-04	3.162E-04	147.01	283.11	¥	Ą
Thiophene	3.392E-04	5.170E-04	4.281E-04	QN	3.494E-04	3.494E-04	10.00	1.23	∢	۵
Dimethyldisulfide	QN	QN	QN	QN	3.910E-04	3.910E-04	QN	Q	ц.	ц,
							i I			

a Compounds in bold represent duplicate values.

A = Identified as a contaminant (greater than or equal to 10 times background or minimum MQL)

B = Likely contaminant (less than 10 and greater than or equal to 5 times background or minimum MQL)

C = Probable contaminant (less than 5 and greater than or equal to 2 times background or minimum MQL)

D = Measured, but accuracy or presence questionable (less than 2 and greater than or equal to 1 times background or minimum MQL)

F = Not considered a contaminant (less than 1 times background or minimum MQL)

TABLE A-8. AEC - VOC RUN NO. 1 DATA FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

1000 1000		Molecular	Average Concentration -	Average Concentration	Background - Concentration,	Background Corrected Concentration	Dilution Correction	Corrected Concentration -	Initial Plume	Sample Total Material - Run	Number of	Corrected Emission Factor - Run
1.000 1.00				,	•		v (a) man		a follows			
1. 1.000	Total Nonmethane Hydrocarbons (TNMHC)			00 1007 0	00 1010	20 1000	0000	SO Live	0,0	7000		20 20 20 0
1.00 1.00	DLWN			5.430E-02	Z.150E-0Z	4.280E-02	0.9230	4.634E-02	37,342	1.080E-04	4	2./015-05
28 7.126 2.000E-01 2.000E-02 2.000E-03 0.05269 3.000E-03 3.7342 2.04E-05 4 4.8 7.126 6.000E-03 2.000E-03 0.05269 0.05269 3.7342 2.04E-05 4 4.8 1.026 2.000E-03 2.000E-03 0.05269 0.05269 3.7342 2.04E-05 4 4.8 1.026 2.000E-03 2.000E-03 0.000E-03 0.05269 0.05269 0.000E-03 0.000	Volatile Organic Compounds (VOCs)											
28 3.7.126 6.800000 1.000000 0.05258 0.000000 37.342 2.0146-654 4.7.24 2.000000-64 0.05258 0.000000 37.342 2.0146-654 4.7.24 2.0146-654 4.7.24 2.0146-654 37.342 2.0146-654 4.7.24 2.0146-654 37.342 2.0146-657 4.7.24 2.0146-654 37.342 2.0146-657 4.7.24 2.0146-654 37.342 2.0146-657 4.7.24 2.0146-657 4.7.24 2.0146-657 4.7.24 2.0166-657 3.0166-658 3.0166-657 3.0166-	Ethane	30	4.006	5.000E-03	2.200E-03	2.800E-03	0.9236	3.032E-03	37,342	7.067E-06	4	1.767E-06
43 6.8281 6.02000 6.02250 6.02250 6.02000 6.02250 6.02000 6.02000 6.02250 6.02000 6.02000 6.02250 6.02000 6.02000 6.02250 6.02000 6.02000 6.0000	Ethylene	28	7.126	8.300E-03	2.000E-04	8.100E-03	0.9236	8.770E-03	37,342	2.044E-05	4	5.111E-06
1,100 1,10	Acetylene	56	8.321	9.000E-03	1.000E-03	8.000E-03	0.9236	8.662E-03	37,342	2.019E-05	4	5.048E-06
42 1 (160) 2 2000E/G4 1 0000E/G4 2 0000E/G4 1 0000E/G4 2 0000E/G4 1 0000E/G4 2 0000E/G4 1 0000E/G4 1 0000E/G4 2 0000E/G4 1 0000E/G4	Propane	44	1.202	2.200E-03	2.000E-03	2.000E-04	0.9236	2.165E-04	37,342	5.048E-07	4	1.262E-07
558 0.1244 2,0000E-04 4,0000E-04 1,0000E-04 0.0000E-04	Propene	42	1.660	2.900E-03	1.000E-04	2.800E-03	0.9236	3.032E-03	37,342	7.067E-06	4	1.767E-06
56 0.086 0.086 N.D. 2,000E-04 0.02556 4,131E-04 37,342 5,000E-04 4 56 0.072 2,000E-04 N.D. 2,000E-04 0.02556 2,165E-04 37,342 1,000E-04 4 56 0.325 2,000E-04 0.000E-04 0.000E-04 0.02556 N.D. 1,000E-04 7,100E-04 1,000E-04 1,000E-04 <td>i-Butane</td> <td>58</td> <td>0.124</td> <td>3.000E-04</td> <td>4.000E-04</td> <td>-1.000E-04</td> <td>0.9236</td> <td>QN</td> <td>37,342</td> <td>Q</td> <td>4</td> <td>ON</td>	i-Butane	58	0.124	3.000E-04	4.000E-04	-1.000E-04	0.9236	QN	37,342	Q	4	ON
54 0.172 A. MODE 64 ND 2,000E 64 0.0236 4.331E 64 37,342 1,000E 64 4 54 0.082 2,000E 44 ND 2,000E 64 0.0236 2,146E 67 37,342 1,000E 64 4 56 0.282 2,000E 44 ND 1,000E 64 0.0236 5,048E 77 1,000E 64 4 56 0.216 0.028 0.026 1,000E 64 0.000E 64 0.0026 1,000E 64 1,000E 64 0.0036 1,000E 64 1,000E 64 0.0036 1,000E 64 1,000E 64 1	i-Butene	56	0.086	2.000E-04	2	2.000E-04	0.9236	2.165E-04	37,342	5.048E-07	4	1.262E-07
54 0.089 0.089 2.1655-04 37.342 5.0486-07 4 54 0.0329 0.0329 7.1732 0.0486-07 0.0006-04	1-Butene	56	0.172	4.000E-04	2	4.000E-04	0.9236	4.331E-04	37,342	1.010E-06	4	2.524E-07
58 0.332 \$8,000E-04 NODE-00 0.000E-00 0.000E-00<	1,3-Butadiene	54	0.089	2.000E-04	Q	2.000E-04	0.9236	2.165E-04	37,342	5.048E-07	4	1.262E-07
10	n-Butane	28	0.332	8.000E-04	8.000E-04	0.000E+00	0.9236	Q	37,342	2	4	Q
572 ONG 1000E-04 NO 1,000E-04 0,022-05 1,000E-04 87,342 2,000E-04 4 770 ND ND ND 1,000E-04 0,022-05 ND 97,342 2,046-07 4 770 ND ND ND ND ND 0,022-05 ND 97,342 ND 4 770 ND ND ND ND ND 0,022-05 ND 97,342 ND 4 770 ND ND ND ND ND ND 0,022-05 ND 97,342 ND 4 770 ND ND ND ND ND ND 0,022-05 ND 97,342 ND 4 770 ND ND ND ND ND ND ND ND 0,022-05 ND 97,342 ND 4 80 ND ND ND ND ND ND ND ND <td< td=""><td>trans-2-Butene</td><td>26</td><td>0.215</td><td>5.000E-04</td><td>2</td><td>5.000E-04</td><td>0.9236</td><td>5.414E-04</td><td>37,342</td><td>1.262E-06</td><td>4</td><td>3.155E-07</td></td<>	trans-2-Butene	26	0.215	5.000E-04	2	5.000E-04	0.9236	5.414E-04	37,342	1.262E-06	4	3.155E-07
56 OLOG3 1,000E-04 N DO 1,003E-04 0,0256 N DO 1,003E-04 0,003E-04 0,003E-04 <td>z,z-Uimetnyipropane</td> <td>7.5</td> <td>Q.</td> <td>ON</td> <td>2</td> <td>Q</td> <td>0.9236</td> <td>2</td> <td>37,342</td> <td>Q</td> <td>4</td> <td>QN</td>	z,z-Uimetnyipropane	7.5	Q.	ON	2	Q	0.9236	2	37,342	Q	4	QN
77 100	cis-2-Butene	26	0.043	1.000E-04	Q :	1.000E-04	0.9236	1.083E-04	37,342	2.524E-07	4	6.310E-08
72 U.167 S.000E-04 3.000E-04 2.0256 N.D 57.342 N.D 4 70 N.D N.D N.D N.D 0.0256 N.D 57.342 N.D 4 70 N.D N.D N.D N.D 0.0256 N.D 57.342 N.D 4 70 N.D N.D N.D N.D 0.0256 N.D 57.342 N.D 4 70 N.D N.D N.D N.D N.D 1.0256 N.D 57.342 N.D 4 70 N.D N.D N.D N.D 0.0256 N.D 57.342 N.D 4 86 N.D N.D N.D 0.0256 N.D 57.342 N.D 4 86 N.D N.D N.D 0.0256 N.D 57.342 N.D 4 86 N.D N.D N.D 0.0256 N.D 57.342 N.D 4 <	3-Methyl-1-butene	2	ON.	QN	QN	ON .	0.9236	CN	37,342	Q	4	2
70 ND ND ND 0.9236 ND 97,342 ND 4 70 ND NDD NDD NDD 0.9236 ND 97,342 ND 4 70 ND ND 2000Eq4 0.000Eq4 0.00298 ND 97,342 ND 4 70 ND ND ND ND ND ND 0.0236 ND 97,342 ND 4 70 ND ND ND ND ND 0.0236 ND 97,342 ND 4 86 ND ND ND 0.0236 ND 97,342 ND 4 86 ND ND ND 0.0236 ND 97,342 ND 4 86 ND ND ND ND ND 0.0236 ND 97,342 ND 4 86 ND ND ND ND 0.0236 ND 97,342 ND	i-Pentane	72	0.167	5.000E-04	3.000E-04	2.000E-04	0.9236	2.165E-04	37,342	5.048E-07	4	1.262E-07
7.0 N.D 3.00E-04 5.000E-04 0.000E-00 0.03266 N.D 37,342 N.D 4 7.0 N.D N.D N.D N.D 0.000E-04 N.D 0.02266 N.D 37,342 N.D 4 7.0 N.D N.D N.D N.D N.D N.D 0.02266 N.D 37,342 N.D 4 7.0 N.D N.D N.D N.D N.D 0.02266 N.D 37,342 N.D 4 86 N.D N.D N.D N.D 0.0236 N.D 37,342 N.D 4 86 N.D N.D N.D 0.0236 N.D 37,342 N.D 4 86 N.D N.D N.D N.D 0.0236 N.D 37,342 N.D 4 86 N.D N.D N.D N.D N.D 0.0236 N.D 37,342 N.D 4 86 N.D	1-Peniene	0/2	2	2	2	2	0.9236	Q.	37,342	Q !	4	2
68 ND ND ND ND ND ND 0.9236 ND 37,342 ND 4 70 ND ND ND ND ND ND 0.9236 ND 37,342 ND 4 70 ND ND ND ND ND ND 0.9236 ND 37,342 ND 4 86 ND ND ND ND ND ND 0.9236 ND 37,342 ND 4 88 ND ND ND ND ND ND 0.9236 ND 37,342 ND 4 88 ND ND ND ND ND 0.9236 ND 37,342 ND 4 86 ND ND ND ND ND ND 0.9236 ND 37,342 ND 4 86 ND ND ND ND ND ND 0.9236 ND <	z-metnyi- 1-butene	5 8	QN C	ON S		ON Topic	0.9236	S	37,342	2	4	Q.
The color of the	II-Peniane	7/2	0.00	3.000E-04	3.000E-04	0.000E+00	0.9236		37,342	2 2	4	
10	isomerie o Donor	8 8	2 2	2 2	Z.UQUE-U4	2 2	0.9230		37,342	2	4	2 5
70 ND ND ND ND 0.9359 ND 57.342 ND 4 86 ND ND ND ND ND 0.9236 ND 57.342 ND 4 86 ND ND ND ND ND ND ND 4 86 ND ND ND ND ND ND 0.9236 ND 37.342 ND 4 86 ND ND ND ND ND ND 0.9236 ND 37.342 ND 4 86 ND ND ND ND ND 0.9236 ND 37.342 ND 4 86 ND ND ND ND ND 0.9236 ND 37.342 ND 4 86 ND ND ND ND ND ND 0.9236 ND 37.342 ND 4 86 ND ND ND<	lialis-z-refile	9 9	Q.	2 2	2 4	2	0.9230		37,342	2 2	4	2
86 ND ND ND ND 0.2250 ND 37,342 ND 4 84 ND ND ND 0.9256 ND 37,342 ND 4 70 ND ND ND ND ND 0.9256 ND 37,342 ND 4 70 ND ND ND ND ND 0.9256 ND 37,342 ND 4 86 ND ND ND ND ND 0.9256 ND 37,342 ND 4 86 ND ND ND ND 0.9256 ND 37,342 ND 4 86 ND ND ND ND 0.9256 ND 37,342 ND 4 86 ND ND ND ND ND 0.9256 ND 37,342 ND 4 86 ND ND ND ND ND 0.9256 ND	O-Mathu-2-butono	2 2	Q C	2 2	2 2	2 2	0.9230	2 2	37,342	2 2	4	2 2
68 ND ND ND ND 0.9226 ND 37,342 ND 4 770 ND ND ND 0.9236 ND 37,342 ND 4 84 ND ND ND ND ND 0.9236 ND 37,342 ND 4 86 ND ND ND ND 0.9236 ND 37,342 ND 4 86 ND ND ND ND 0.9236 ND 37,342 ND 4 86 ND ND ND ND 0.9236 ND 37,342 ND 4 86 ND ND ND ND 0.9236 ND 37,342 ND 4 86 ND ND ND ND 0.9236 ND 37,342 ND 4 84 ND ND ND ND 0.9236 ND 37,342 ND 4	2.2. Dimethylbutana	0/	22	2 2	2 2	2 2	0.9230	2 2	37,342	22	4	2 2
84 ND ND ND ND 0,9236 ND 37,342 ND 4 9 MD ND ND 0,9236 ND 37,342 ND 4 9 MD ND ND ND ND 0,9236 ND 37,342 ND 4 9 MD ND ND ND 0,9236 ND 37,342 ND 4 86 ND ND ND 0,9236 ND 37,342 ND 4 84 ND ND 0,9236 ND 37,342 ND 4 84 ND ND 0,9236 ND 37,342 ND 4 84 ND ND ND 0,9236 ND 37,342 ND 4 84 ND ND ND ND 0,9236 ND 37,342 ND 4 84 ND ND ND 0,9236 ND	Cyclopentene	88	2 2	2 2	2 2	22	0.9230	2 2	37,342	2 5	4 4	2 2
70 ND ND ND ND ND ND ND ND ND AD AD<	4-Methyl-1-pentene	2	2	2	9	S	0.9236	Q	37.342	CN	4	CZ
Be	Cyclopentane	92	QN	Q	2	2	0.9236	2	37,342	2	4	Q.
9 ND ND ND ND O9236 ND 37,342 ND 4 86 0.056 2,000E-04 0.000E+00 0.0236 ND 37,342 ND 4 84 ND ND ND ND 0.9236 ND 37,342 ND 4 84 ND ND ND ND 0.9236 ND 37,342 ND 4 84 ND ND ND ND 0.9236 ND 37,342 ND 4 84 ND ND ND ND 0.9236 ND 37,342 ND 4 84 ND ND ND ND 0.9236 ND 37,342 ND 4 84 ND ND ND ND ND 0.9236 ND 37,342 ND 4 100 0.029 1.000E-04 1.000E-04 0.000E+00 0.9236 ND 37,342 ND	2,3-Dimethylbutane	86	QN	QN	Q	Q	0.9236	Q	37,342	Q	4	Q
86 0.0566 2.000E-04 2.000E-04 0.000E+00 0.9236 ND 37,342 ND 4 86 ND ND ND ND ND 0.9236 ND 37,342 ND 4 84 ND ND ND ND ND ND 0.9236 ND 37,342 ND 4 84 ND ND ND ND ND 0.9236 ND 37,342 ND 4 84 ND ND ND ND ND ND 37,342 ND 4 84 ND ND ND ND ND 0.9236 ND 37,342 ND 4 84 ND ND ND ND ND 0.9236 ND 37,342 ND 4 100 0.024 1.000E-04 1.000E-04 0.000E+0 0.9236 ND 37,342 ND 4 100 0.023 1.000E	cis-4-Methyl-2-pentene	84	QN	QN	QN	ND	0.9236	QN	37,342	QV	4	QN
86 ND ND ND ND 0.9236 ND 37,342 ND 4 84 ND ND ND 0.9236 ND 37,342 ND 4 84 ND ND ND ND 0.9236 1.083E-04 37,342 ND 4 84 ND ND ND ND ND ND 37,342 ND 4 84 ND ND ND ND ND ND 37,342 ND 4 84 ND ND ND ND ND 37,342 ND 4 84 ND ND ND 0.9236 ND 37,342 ND 4 84 ND ND ND 0.9236 ND 37,342 ND 4 100 0.024 1.000E-04 1.000E-04 0.000E+00 0.9236 ND 37,342 ND 4 100 0.647 2.100	2-Methylpentane	86	0.056	2.000E-04	2.000E-04	0.000E+00	0.9236	QN	37,342	QN	4	QN
84 ND ND ND ND ND ND O9236 ND 37,342 ND 4 86 0.056 2.000E-04 1.000E-04 1.000E-04 0.9236 ND 37,342 ND 4 86 0.056 2.000E-04 1.000E-04 1.000E-04 0.9236 ND 37,342 ND 4 84 ND ND ND ND ND ND 0.9236 ND 37,342 ND 4 100 0.024 ND ND ND 0.9236 ND 37,342 ND 4 100 0.024 1.000E-04 1.000E-04 0.000E+00 0.9236 ND 37,342 ND 4 100 0.024 1.000E-04 1.000E-04 0.000E+00 0.9236 ND 37,342 ND 4 100 0.024 1.000E-04 1.000E-04 0.000E+00 0.9236 ND 37,342 ND 4 100	3-Methylpentane	86	QN	2	Q	Q	0.9236	Q	37,342	Q.	4	Q
84 ND ND ND ND O9236 ND 37,342 ND 4 84 ND 2,006E-04 1,000E-04 1,000E-04 1,000E-04 1,003E-04 37,342 2,524E-07 4 84 ND ND ND ND 0,9236 ND 37,342 ND 4 84 ND ND ND ND 0,9236 ND 37,342 ND 4 84 ND ND ND 0,9236 ND 37,342 ND 4 100 0.029 1,000E-04 1,000E-04 0,0036 ND 37,342 ND 4 100 0.024 1,000E-04 1,600E-03 0,9236 ND 37,342 ND 4 84 ND 1,000E-04 1,600E-03 0,9236 ND 37,342 ND 4 100 ND 1,000E-04 1,600E-03 0,9236 ND 37,342 ND 4	2-Methyl-1-pentene	84	QN	Q	Q	Q	0.9236	Q	37,342	Q	4	Q
86 0.056 2.000E-04 1,000E-04 0,0236 ND 37,342 ND 4 84 ND ND ND 0,9236 ND 37,342 ND 4 100 0.029 1,000E-04 1,000E-04 0,000E+00 0,9236 ND 37,342 ND 4 100 0.024 1,000E-04 1,000E-00 0,9236 ND 37,342 ND 4 84 ND 0,00E-04 1,000E-04 1,600E-03 0,9236 ND 37,342 ND 4 100 ND 1,000E-04 1,600E-03 0,9236 ND 37,342 ND 4 100 ND 1,000E-04 1,000E-04 ND 0,9236 ND 37,342 ND 4 100 ND ND 1,000E-04 <td< td=""><td>1-Hexene</td><td>88</td><td>QN</td><td>2</td><td>Q</td><td>ND</td><td>0.9236</td><td>Q</td><td>37,342</td><td>Q</td><td>4</td><td><u>Q</u></td></td<>	1-Hexene	88	QN	2	Q	ND	0.9236	Q	37,342	Q	4	<u>Q</u>
84 ND ND ND ND ND ND 37,342 ND 4 84 ND ND ND ND ND ND 4 ND 4 84 ND ND ND ND ND 0.9236 ND 37,342 ND 4 84 ND ND 1.000E-04 1.000E-04 0.000E+00 0.9236 ND 37,342 ND 4 100 0.024 1.000E-04 1.000E-04 1.000E-03 0.9236 ND 37,342 ND 4 84 ND ND 1.000E-04 1.000E-03 0.9236 ND 37,342 ND 4 1 100 ND ND 1.000E-04 ND 0.9236 ND 37,342 ND 4 1 100 ND ND 1.000E-04 ND 0.9236 ND 37,342 ND 4 1 100 ND ND	n-Hexane	98	0.056	2.000E-04	1.000E-04	1.000E-04	0.9236	1.083E-04	37,342	2.524E-07	4	6.310E-08
84 ND ND ND ND ND ND A 84 ND ND ND ND ND ND 4 84 0.029 1.000E-04 1.000E-04 0.000E+00 0.9236 ND 37,342 ND 4 100 0.024 1.000E-04 1.000E-04 0.000E+00 0.9236 ND 37,342 ND 4 100 ND ND 1.000E-04 1.000E-03 0.9236 ND 37,342 ND 4 100 ND ND 1.000E-04 1.000E-03 0.9236 ND 37,342 ND 4 100 ND ND 1.000E-04 ND 0.9236 ND 37,342 ND 4 100 ND ND 1.000E-04 ND 0.9236 ND 37,342 ND 4 100 ND ND 1.000E-04 ND 0.9236 ND 37,342 ND 4	trans-z-rexene	\$ 2	2	2	Q !	2	0.9236	Q !	37,342	2	4	2
84 0.024 1.00E-04 1.00E-04 0.000E+00 0.9236 ND 37,342 ND 4 100 0.024 1.000E-04 1.000E-04 0.000E+00 0.9236 ND 37,342 ND 4 100 0.024 1.000E-04 1.000E-04 0.000E+00 0.9236 ND 37,342 ND 4 1 100 ND ND 1.000E-04 1.000E-03 0.9236 ND 37,342 ND 4 1 100 ND ND 1.000E-04 ND 0.9236 ND 37,342 ND 4 1 100 ND ND 1.000E-04 ND 0.9236 ND 37,342 ND 4 1 100 ND ND 1.000E-04 ND 0.9236 ND 37,342 ND 4 1 100 ND ND 2.000E-04 ND 0.9236 ND 37,342 ND 4 1	z-melinyi-z-perilene	\$ 3	2 2	2	2	2	0.9236	2 5	37,342	2	4	2
100 0.024 1.000E-04 1.000E+00 0.9236 ND 37,342 ND 4 78 0.647 2.100E-04 1.000E-04 0.000E+00 0.9236 ND 37,342 ND 4 1. 84 ND ND 1.000E-04 1.600E-03 0.9236 ND 37,342 ND 4 1. 100 ND ND 1.000E-04 ND 0.9236 ND 37,342 ND 4 1. 100 ND ND 1.000E-04 ND 0.9236 ND 37,342 ND 4 1. 100 ND ND 1.000E-04 ND 0.9236 ND 37,342 ND 4 1. 100 ND ND 2.000E-04 ND 0.9236 ND 37,342 ND 4 1. 100 ND ND 2.000E-04 ND 0.9236 ND 37,342 ND 4 1. <td< td=""><td>Moth developmentage</td><td>8 8</td><td>ON</td><td>ON POOR</td><td>ON 1000 F</td><td>ON LOSS</td><td>0.9230</td><td>2 2</td><td>37,342</td><td>2 2</td><td>4</td><td>2</td></td<>	Moth developmentage	8 8	ON	ON POOR	ON 1000 F	ON LOSS	0.9230	2 2	37,342	2 2	4	2
100 ND ND ND 1,000E-04 1,000E-	Metrylcycopernarie	\$ 5	0.023	1.000 1	1.000 -04	0.000=+00	0.9230	2 2	37,042	2 2	4	2
100 ND ND 1,000E-04 0,9236 ND 37,342 4,03E-05 4 1,000E-04 1,000E-04 1,000E-04 ND 1,000E-04 ND 1,000E-04 ND 0,9236 ND 37,342 ND 4 ND 4 ND 1,000E-04 2,000E-04 0,9236 3,248E-04 37,342 7,572E-07 4 ND 1,000E-04 3,000E-04	Bonzono	3 8	0.024	000E-04	1.000 -04	0.000=+00	0.9230	UN TOOL ,	37,342	ON 1999	4	2010
100 ND ND ND 1.000E-04 ND 0.9236 ND 37,342 ND 4 100 ND ND 1.000E-04 ND 0.9236 ND 37,342 ND 4 100 ND ND 1.000E-04 ND 0.9236 ND 37,342 ND 4 100 ND ND 1.000E-04 ND 0.9236 ND 37,342 ND 4 100 ND ND 2.000E-04 ND 0.9236 ND 37,342 ND 4 100 ND ND 2.000E-04 3.000E-04 3.000E-04 37,342 7.572E-07 4 114 0.105 5.000E-04 2.000E-04 3.000E-04 3.000E-04 37,342 7.572E-07 4 114 0.105 5.000E-04 3.000E-04 3.000E-04 3.000E-04 37,342 7.572E-07 4 114 0.105 5.000E-04 3.000E-04 3.000E-04 3.000E-04 37,342 7.572E-07 4 114 0.105 5.000E-04 3.000E-04 3.000E-04 3.000E-04 37,342 7.572E-07 4 114 0.105 5.000E-04 3.000E-04 3.000E-04 3.000E-04 37,342 7.572E-07 4 114 0.105 5.000E-04 3.000E-04	Cuclobosess	0,8	10.5	Z. 100E-03	3.000E-04	1.000E-U3	0.9230	1.7325-03	37,342	4.030E-00	4	00-101
100 ND ND 1.000E-04 ND 0.9236 ND 37,342 ND 4 1.000E-04 0.9236 3.248E-04 37,342 7.572E-07 4	O Mothylboxono	\$ 5	2 2	2 2	1.0001-04		0.9230	2 2	37,342	2 2	4	2 9
100 ND ND 1.000E-04 ND 0.9236 ND 37,342 ND 4 114 0.105 5.000E-04 2.000E-04 0.9236 3.248E-04 37,342 7.572E-07 4	2 2 Dimethylogical	3 5	2 2	2 2	1.000E-04	2 9	0.9236	22	37,342	2 2	4	2
9 114 0.105 5.000E-04 2.000E-04 0.9236 3.248E-04 37,342 7.572E-07 4	2. Mothylboxapa	3 5	2 2	2 5	1.000E-04	2 2	0.9230	2 2	27,042	2 2	4	2 2
4 0.22200 0.22200 0.22200 0.22200 0.2220 0.2220 0.2220 0.2220 0.2220 0.2220 0.2220 0.2220 0.2220 0.2	2.2.4. Trimethylpentane	3 5	2000	NO.	2,000E-04	ON 2000 c	0.3230	ON 0	27.042	7 5705 07	,	1 000 F
	the state of the s	-	3	3.000	Z.000E-04	3.000 =-04	0.3530	3.2405-04	2+0,10	1.37.55-07	,	1.0935-07

TABLE A-8. AEC - VOC RUN NO. 1 DATA FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

					Background						Corrected
	Molecutar	Average Concentration	Average Concentration -	Background - Concentration,	Corrected Concentration -	Dilution	Concentration -	Initial Plume	Sample Total Material - Run	Number of	Emission Factor - Run
Compound (a)	Weight	Run 1, ppbv	Run 1, mg/m³	mg/m³	Run 1, mg/m³	Factor (b), %	Run 1, mg/m³	Volume, ft³	1, lb	Items	1, lb/item
n-Heptane	100	QN	GN	1.000E-04	QN	0.9236	QN	37,342	QN	4	QN
2,4,4-Trimethyl-1-pentene	112	QN	QN	2.000E-04	QN	0.9236	QN	37,342	ON	4	ND
Methylcyclohexane	98	QN	Q	QN	Q	0.9236	ON	37,342	Q	4	2
2,4,4-Trimethyl-2-pentene	112	Q	Q	Q	Q	0.9236	Q	37,342	Ð	4	Q
2,5-Dimethy/hexane	114	QN	QN	NO.	QN	0.9236	QN	37,342	ON	4	Q
2,4-Dimethylhexane	114	QN	QN	QN	QN	0.9236	ON	37,342	QN	4	QN
2,3,4-Trimethylpentane	114	QN	QN	1.000E-04	QN	0.9236	QN	37,342	QN	4	ND
Toluene	92	0.340	1.300E-03	5.000E-04	8.000E-04	0.9236	8.662E-04	37,342	2.019E-06	4	5.048E-07
2,3-Dimethylhexane	114	QN	QN	QN	QN	0.9236	ON	37,342	QN	4	ND
2-Methylheptane	111	QN	QN	QN	QN	0.9236	QN	37,342	QN	4	ND
3-Ethylhexane	114	QN	QN	QN	QN	0.9236	QN	37,342	QN	4	ND
2,2-Dimethylheptane	128	QN	QN	QN	QN	0.9236	QN	37,342	QN	4	ND
2,2,4-Trimethylhexane	128	QN	QN	QN	QN	0.9236	QN	37,342	QN	4	QN
n-Octane	114	0.021	1.000E-04	1.000E-04	0.000E+00	0.9236	QN	37,342	QN	4	ON
Ethylcydohexane	112	QN	QN	QN	Q	0.9236	QV	37,342	QV	4	Q
Ethylbenzene	160	0.045	3.000E-04	1.000E-04	2.000E-04	0.9236	2.165E-04	37,342	5.048E-07	4	1.262E-07
m-Xylene & p-Xylene	106	0.181	8.000E-04	6.000E-04	2.000E-04	0.9236	2.165E-04	37,342	5.048E-07	4	1.262E-07
Styrene	ş	0.092	4.000E-04	QN	4.000E-04	0.9236	4.331E-04	37,342	1.010E-06	4	2.524E-07
o-Xylene	106	0.091	4.000E-04	2.000E-04	2.000E-04	0.9236	2.165E-04	37,342	5.048E-07	4	1.262E-07
n-Nonane	128	0.038	2.000E-04	1.000E-04	1.000E-04	0.9236	1.083E-04	37,342	2.524E-07	4	6.310E-08
i-Propylbenzene	120	Q	Q	QN	9	0.9236	QN	37,342	Q	4	9
n-Propylbenzene	120	0.020	1.000E-04	1.000E-04	0.000E+00	0.9236	QN	37,342	QN	4	Q
p-Ethyttoluene	120	0.100	5.000E-04	3.000E-04	2.000E-04	0.9236	2.165E-04	37,342	5.048E-07	4	1.262E-07
m-Ethyltoluene	120	090.0	3.000E-04	1.000E-04	2.000E-04	0.9236	2.165E-04	37,342	5.048E-07	4	1.262E-07
1,3,5-Trimethylbenzene	120	0.080	4.000E-04	2.000E-04	2.000E-04	0.9236	2.165E-04	37,342	5.048E-07	4	1.262E-07
o-Ethyltoluene	120	0.080	4.000E-04	1.000E-04	3.000E-04	0.9236	3.248E-04	37,342	7.572E-07	4	1.893E-07
1,2,4-Trimethylbenzene & sec-Butylbenzene	120	0.180	9.000E-04	2.000E-04	7.000E-04	0.9236	7.579E-04	37.342	1.767E-06	4	4.417E-07
n-Decane	142	0.034	2.000E-04	1.000E-04	1.000E-04	0.9236	1.083E-04	37,342	2.524E-07	4	6.310E-08
alpha-Pinene	136	QV	QV	QN	Q	0.9236	QV	37,342	QN	4	9
beta-Pinene	136	QN	S	Q	9	0.9236	Q	37,342	Q	4	Q
delta 3-Carene	136	QN	QN	QN	ON	0.9236	QN	37,342	ND	4	ON
d-Limonene	136	QN	QN	QN	QN	0.9236	QN	37,342	QN	4	Q
MTBE	88	2	9	QN	9	0.9236	Q	37,342	Q	4	2
EIBE	102	ON S	QN I	QN	ON	0.9236	QN	37,342	QN 3	4	ON S
Mothabload	021	0.297	1.485E-03	1.3/9E-03	1.053E-04	0.9230	1.140E-04	37,342	Z.558E-U/	4	0.040E-08
Dichlorotetrafinoroethane	171	2 5	S S	2 2	2 2	0.9236	22	37.342		4	2 2
Chloroethene	89	Q	Q	CZ	S	0.9236	Q	37.342	Ç.	4	S
1,3-Butadiene	54	0.091	2.034E-04	2	2.034E-04	0.9236	2.203E-04	37,342	5,135E-07	4	1.284E-07
Methylbromide	92	QN	QN	QN	QN	0.9236	QN	37,342	QN	4	Q
Ethylchloride	64.5	QN	QN	QN	QV	0.9236	QN	37,342	QN	4	Q
Trichloromonofluoromethane	137	0.427	2.435E-03	2.533E-03	-9.803E-05	0.9236	QN	37,342	QN	4	ND
Vinylidenechlonde	97	2	Q	QN	Q	0.9236	Q	37,342	Q	4	Q
Methylenechloride	85	2.552	9.024E-03	9.447E-04	8.079E-03	0.9236	8.748E-03	37,342	2.039E-05	4	5.098E-06
Aliyichionoe	76.5	250	ON I	ON .	QN .	0.9236	Q S	37,342	Q.	4	Q.
1,1,2-Inchloro-1,2,2-Influoroethane	188	0.097	7.574E-04	9.142E-04	-1.568E-04	0.9236	2	37,342	Q	4	2
1.1-Dichloroethane	8 6	2 2	2 2	2	2 2	0.9236	2 5	37,342	2 2	4	2
L,z-Didiloroemene	410	2 2	2 2	2 2	2 9	0.9236		37,342	2 2	4	2 2
Chigroidin	2	3	NO.	NC	N	0.9230	Ŋ	37,042	מכ	4	N

TABLE A-8. AEC - VOC RUN NO. 1 DATA FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

Compound (a)	Molecular Weight	Average Concentration - Bun 1, poby	Average Concentration - Run 1. mo/m²	Background - Concentration, mo/m³	Background Corrected Concentration - Run 1. mg/m ⁻¹	Dilution Correction Factor (b). %	Corrected Concentration - Run 1. mo/m³	initial Plume Volume, ft³	Sample Total Material - Run 1, Ib	Number of Items	Corrected Emission Factor - Run 1. Ib/tem
1,2-Dichloroethane	66	QN	ON	Q	QN	0.9236	QN	37,342	ON	4	2
Methylchloroform	133	0.063	3.500E-04	3.458E-04	4.195E-06	0.9236	4.542E-06	37,342	1.059E-08	4	2.647E-09
Benzene	78	0.658	2.136E-03	5.086E-04	1.627E-03	0.9236	1.762E-03	37,342	4.108E-06	4	1.027E-06
Carbontetrachloride	154	0.116	7.429E-04	7.248E-04	1.814E-05	0.9236	1.964E-05	37,342	4.580E-08	4	1.145E-08
1,2-Dichloropropane	113	ON	QN	ΔN	GN	0.9236	ON	37,342	QN	4	Q
Trichloroethylene	133	ND	QN	ND	QN	0.9236	Ņ	37,342	QN	4	N
cis 1,3-Dichloro-1-propene	111	ON	QN	ND	QN	0.9236	QN	37,342	QN	4	ND
trans 1,3-Dichloro-1-propene	111	ON	QN	ND	QN	0.9236	QN	37,342	QN	4	QV
1,1,2-Trichloroethane	133	QN	ON	QN	QN	0.9236	ON	37,342	QN	4	Q
Toluene	92	0.345	1.322E-03	5.086E-04	8.137E-04	0.9236	8.810E-04	37,342	2.054E-06	4	5.135E-07
1,2-Dibromoethane	188	ON	ON	ON ON	ON	0.9236	QN	37,342	ON	4	Q
Perchloroethylene	166	ON	QN	Q	QN	0.9236	QN	37,342	QN	4	QN
Chlorobenzene	113	ND	QN	ND	QN	0.9236	ON	37,342	ON	4	QN
Ethylbenzene	160	0.069		ND	4.606E-04	0.9236	4.987E-04	37,342	1.163E-06	4	2.906E-07
m&p-Xylene	106	0.220	9.715E-04	5.549E-04	4.166E-04	0.9236	4.510E-04	37,342	1.051E-06	4	2.629E-07
Styrene	104	ND	QN	QN	QN	0.9236	QN	37,342	QN	4	QV
1,1,2,2-Tetrachloroethane	168	ND	QN	QN	QN	0.9236	QN	37,342	QN	4	QN
o-Xylene	106	0.092	4.068E-04	QN	4.068E-04	0.9236	4.405E-04	37,342	1.027E-06	4	2.567E-07
p-Ethyltoluene	120	0.062	3.110E-04	QN	3.110E-04	0.9236	3.367E-04	37,342	7.850E-07	4	1.962E-07
1,3,5-Trimethylbenzene	120	ND	QN	ND	ND	0.9236	QN	37,342	QN	4	QN
1,2,4-Trimethylbenzene	120	0.155	7.719E-04	6.311E-04	1.408E-04	0.9236	1.525E-04	37,342	3.554E-07	4	8.886E-08
Benzylchloride	127	QN	QN	QN	ON	0.9236	ŅD	37,342	QN	4	QN
m-Dichlorobenzene	147	Q	QN	ND	ND	0.9236	ND	37,342	QV	4	QN
p-Dichlorobenzene	147	QV	QV	Q	ON	0.9236	Q	37,342	QN	4	QN
o-Dichlorobenzene	147	Q	Q	Q	QN	0.9236	Q	37,342	Q	4	Q
1,2,4-Trichlorobenzene	181	Q	Q	Q	2	0.9236	ND	37,342	2	4	Q
Hexachlorobutadiene	261	Q	Q	2	Q	0.9236	QN	37,342	Q	4	2
Phenylacetylene	102	9	Q	2	ON O	0.9236	ND	37,342	9	4	Q
Indane	118	QN	Q	S	2	0.9236	Q	37,342	Q	4	Q
2,3-Dihydro-1-methyl-1H-indene	132	Q	QN	Q	Q	0.9236	Q	37,342	Q	4	Q
2,3-Dihydro-4-methyl-1H-indene	132	9	QQ	S	ND	0.9236	QV	37,342	Q	4	Q
Naphthalene	128	0.184	9.807E-04	6.852E-04	2.955E-04	0.9236	3.199E-04	37,342	7.458E-07	4	1.865E-07
2-Methylnaphthalene	142	Q	Q	Q	Q	0.9236	QV	37,342	2	4	Q
1-Methylnaphthalene	142	Q	Q	Q	2	0.9236	2	37,342	9	4	2
Variogen	25		ON O	2	ND 1 200 t	0.9236	ON COL	37,342	ON	4	ON ST.
Assembliance	6	0.419	20-1-000 0	2	1.002E-03	0.3230	1.150E-03	37,342	2.581E-06	4	6.704E-07
Acedonine	÷ 64	0.032	0.923E-05	2 2	8.923E-05	0.9230	9.001E-U5	37,342	2.2525-07	4	9.631E-08
Nitromothana	3 6	040	1 0375-04	2 2	1 0275.03	0.3230	1.030E-03	27.046	2.4005-00	*	6.100E-07
Pronanentrile	5 65	CN		2 5	N CN	0.3230	ND ND	37.342	2.019E-00		NO POE
2-Methylpropanenitrile	8	CN	2 5	2	2 2	0.0250	2 5	37,72	2 5		2 2
Pentanenitrile	8	CN	S	2	2 2	0.0236	2 5	37,02	2	-	2 5
Hexanenitrile	26	CN	CZ	2 5	2 9	0.2200	2 5	37,72	2 2	4	2 5
Benzonitrile	103	CN	S	Ş	2 5	0.036	2	37 342	Ş		2
2-Nitrophenol	139	2	GN	CN	S	0.9236	CZ	37.342	S	4	2
Acrolein	29	0.852	1.985E-03	Q	1.985E-03	0.9236	2.149E-03	37,342	5.010E-06	4	1.253E-06
Acetone	26	2.649	6.171E-03	1.177E-02	-5.603E-03	0.9236	QN	37,342	QN	4	Q
1-Hydroxy-2-propanone	74	1.565	4.819E-03	1.136E-03	3.682E-03	0.9236	3.987E-03	37,342	9.294E-06	4	2.323E-06
Furan	89	0.118	3.341E-04	Q	3.341E-04	0.9236	3.618E-04	37,342	8.433E-07	4	2.108E-07
2-Propanol	09	QN	QN	1.513E-02	ND	0.9236	ND	37,342	QN	4	QN
							,				

TABLE A-8. AEC - VOC RUN NO. 1 DATA FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

	767 AV 200	一年 大学学 大学							A CONTRACTOR		
					Background) }		Corrected
		Average	Average	Background -	Corrected	Dilution	Consected	Initial Disme	Sample Total	A Complete Section	Emission
Compound (a)	Weight	Run 1, ppbv	Run 1, mg/m³	mg/m³	Run 1, mg/m³	Factor (b), %	Run 1, mg/m³	Volume, ft	material - Hun 1, Ib	Items	1, Ib/item
2-Methylpropanal	74	QV	QV	QN	QN	0.9236	QN	37,342	QN	4	Q
1-Propanol	09	QV	Q	QN	Q	0.9236	QV	37,342	QN	4	2
Methacrolein	20	Q	Ð	9	Q	0.9236	Q	37,342	Q	4	9
Methyl-vinyl Ketone	70	0.098	2.847E-04	QN	2.847E-04	0.9236	3.082E-04	37,342	7.185E-07	4	1.796E-07
MTBE	88	QN	QN	QN	QN	0.9236	QN	37,342	QN	4	QN
2,3-Butanedione	98	QN	Q	Q	Q	0.9236	QV	37,342	Q	4	Q
Butanal	72	0.088	2.638E-04	2.639E-04	-1.217E-07	0.9236	QN	37,342	QN	4	QN
2-Butanone	72	0.441	1.322E-03	7.127E-04	6.094E-04	0.9236	6.598E-04	37,342	1.538E-06	4	3.846E-07
2-Methyl-1,3-dioxolane	88	QN	QN	QN	QN	0.9236	QN	37,342	QN	4	QN
2-Methylfuran	82	QN	QN	QN	QN	0.9236	QN	37,342	QN	4	Q
Tetrahydrofuran	72	ND	QN	QN	ON	0.9236	ND	37,342	QN	4	QN
trans-2-Butenal	70	0.097	2.828E-04	ON	2.828E-04	0.9236	3.062E-04	37,342	7.139E-07	4	1.785E-07
Acetic Acid	09	0.888	2.217E-03	3.365E-03	-1.148E-03	0.9236	QN	37,342	QN	4	Q
1-Butanol	74	ON	QN	QN	QN	0.9236	QN	37,342	QN	4	Q
2-Pentanone	86	ND	QN	ON	QN	0.9236	QN	37,342	QN	4	Q
Pentanal	98	0.229	8.189E-04	9.701E-04	-1.512E-04	0.9236	QN	37,342	QN	4	QN
1,4-Dioxane	88	Q	Q	Q	ND	0.9236	QN	37,342	QN	4	QN
Methyl Methacrylate	100	ND	ON	ON	ND	0.9236	ND	37,342	QN	4	ON
Cyclopentanone	84	Q	Q	QN	ND	0.9236	ND	37,342	_ QN	4	QN
Hexanal	ŝ	0.139	5.802E-04	5.910E-04	-1.072E-05	0.9236	ND	37,342	QN	4	ON
2-Furatdehyde	96	0.410	1.638E-03	QN	1.638E-03	0.9236	1.773E-03	37,342	4.133E-06	4	1.033E-06
Cydohexanone	86	QN	ON	ON	ON	0.9236	ND	37,342	QN	4	QN
Heptanal	114	0.126	5.966E-04	7.495E-04	-1.529E-04	0.9236	ΝD	37,342	Q	4	Q
2-Butoxyethanol	118	0.141	6.911E-04	9.842E-04	-2.931E-04	0.9236	Q	37,342	Q	4	Q
Benzaldehyde	106	0.488	2.153E-03	1.230E-03	9.228E-04	0.9236	9.991E-04	37,342	2.329E-06	4	5.823E-07
6-Methyl-5-hepten-2-one	126	Q	Q	Q.	Q	0.9236	Q	37,342	QN	4	Q
Octanal	128	0.243	1.295E-03	1.720E-03	-4.244E-04	0.9236	ND	37,342	Q	4	Q
Benzofuran	118	Q	Q	2	ND	0.9236	ND	37,342	QV	4	Q
2-Ethyl-1-hexanol	120	QV	2	Q	NO	0.9236	ND	37,342	QN	4	QN
Acetophonone	120	0.074	3.675E-04	Q	3.675E-04	0.9236	3.979E-04	37,342	9.275E-07	4	2.319E-07
Nonanal	142	0.321	1.894E-03	2.304E-03	-4.096E-04	0.9236	ND	37,342	QN	4	QN
Decanal	156	0.298	1.933E-03	2.755E-03	-8.218E-04	0.9236	ND	37,342	QN	4	Q
Carbonyl Sulfide	09	0.172	4.284E-04	2.330E-04	1.954E-04	0.9236	2.116E-04	37,342	4.932E-07	4	1.233E-07
Carbon Disulfide	76	23.388	7.394E-02	5.899E-04	7.335E-02	0.9236	7.942E-02	37,342	1.851E-04	4	4.629E-05
Thiophene	\$	0.097	3.392E-04	QN	3.392E-04	0.9236	3.673E-04	37,342	8.563E-07	4	2.141E-07
Dimethyldisulfide	94	ON.	QN	QN ·	QN	0.9236	QN	37,342	Q	4	Q.

a Compounds in bold represent duplicate values. b Estimated from tracer data as presented in Volume IV.

TABLE A-9. AEC - VOC RUN NO. 2 DATA FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

Compound (a) Weight Fun 2, ppby Run 2, mg/m³ Innethane Hydrocarbons (TMMHC) . . 1.189E-01 Transcription (TMMHC) . . 1.189E-01 Transcription (TMMHC) . . . Transcription (TMMHC) Transcription (TMMHC) .	2	8.420E-02 C C C C C C C C C C C C C C C C C C C	Factor (b), % Run 2, mg/m³ 0.933 1.010E-01 0.933 3.001E-03 0.933 1.7183E-02 0.933 1.715E-02 0.933 1.716E-02 0.933 1.716E-04 0.933 8.574E-04 0.933 1.344E-04 0.933 1.335E-03 0.933 3.216E-04 0.933 1.072E-03 0.933 1.072E-03 0.933 1.072E-03 0.933 1.072E-03 0.933 1.072E-03 0.933 1.072E-04 0.933 1.072E-04 0.933 1.072E-04	Wolume, ft ² 35,643	2, B	tems	2, lb/item
1,189E-01 1,189E-01 1,189E-01 1,189E-01 1,1420 2,600E-03 2,600E-04 2,600E-							
30 5.128 6.400E-03 28 14.766 1.720E-02 28 14.766 1.720E-02 28 15.625 1.660E-03 44 1.420 2.660E-03 42 3.262 5.700E-03 56 0.249 6.000E-04 56 0.258 6.000E-04 56 0.429 1.000E-04 56 0.429 1.000E-04 56 0.429 1.000E-04 56 0.429 1.000E-04 57 0.134 3.000E-04 56 0.034 1.000E-04 57 0.134 4.000E-04 58 0.373 9.000E-04 59 0.034 1.000E-04 50 0.036 2.000E-04 50 0.056 1.000E-04 50 0.029 1.000E-04 50 0.029 1.000E-04 50 0.029 1.000E-04							
30 5.128 6.400E-03 28 14.766 1.720E-02 26 15.625 1.690E-03 44 1.420 2.600E-03 42 3.262 5.700E-03 56 0.258 6.000E-04 56 0.258 6.000E-04 56 0.429 1.300E-04 56 0.429 1.000E-04 56 0.429 1.000E-04 56 0.429 1.000E-04 56 0.429 1.000E-04 57 0.134 3.000E-04 56 0.034 1.000E-04 57 0.034 1.000E-04 58 0.034 4.000E-04 59 0.034 1.000E-04 50 0.036 2.000E-04 50 0.056 1.000E-04 50 0.059 1.000E-04 50 0.029 1.000E-04 50 0.029 1.000E-04					2.247E-04	4	5.616E-05
30 5.128 6.400E-03 28 14.766 1.720E-02 26 15.625 1.630E-02 26 15.625 1.630E-03 28 0.249 5.000E-04 28 0.249 6.000E-04 56 0.258 6.000E-04 56 0.258 6.000E-04 56 0.034 3.000E-04 56 0.034 3.000E-04 56 0.034 1.000E-04 70 ND ND ND 72 ND ND ND 70 ND ND ND 70 ND ND 84 ND ND 84 ND ND 86 0.056 2.000E-04 86 0.056 2.000E-04 87 ND ND 88 ND ND 89 ND ND 89 ND 80 ND							
26 14.766 1.720E-02 26 15.625 1.690E-02 26 15.625 1.690E-03 244 1.420 2.600E-03 242 3.262 5.700E-03 56 0.258 6.000E-04 56 0.258 6.000E-04 56 0.429 1.300E-04 56 0.429 1.300E-04 56 0.429 1.000E-04 57 0.134 4.000E-04 58 0.056 2.000E-04 58 0.056 2.000E-04 58 0.056 2.000E-04 58 0.056 1.000E-04 58 0.052 1.000E-04 59 0.052 1.000E-04 50 0.052 1.000E-04 50 0.052 1.000E-04				3 35,643	6.678E-06	4	1.669E-06
26 15.625 1.690E-02 44 1.420 2.600E-03 42 3.262 5.700E-03 58 0.249 6.000E-04 56 0.558 1.300E-04 56 0.134 3.000E-04 56 0.134 3.000E-04 56 0.0373 9.000E-04 56 0.036 2.000E-04 56 0.036 2.000E-04 70 ND ND 86 ND 86 ND 86 ND 86 ND 86 ND 86 ND 87 ND 88 ND 89 ND 89 ND 89 ND 89 ND 80 ND					4.078E-05	4	1.020E-05
44 1.420 2.600E-0.3 42 3.262 5.700E-0.3 58 0.249 6.000E-0.4 56 0.258 1.300E-0.4 56 0.258 6.000E-0.4 56 0.429 1.000E-0.4 56 0.434 4.000E-0.4 57 0.134 4.000E-0.4 58 ND					3.816E-05	4	9.540E-06
12.00E-03 58 0.249 6.000E-04 58 0.258 6.000E-04 54 0.134 3.000E-04 54 0.134 3.000E-04 55 0.373 9.000E-04 56 0.429 1.000E-04 56 0.429 1.000E-04 56 0.429 1.000E-04 72 0.134 4.000E-04 72 0.134 4.000E-04 72 0.134 4.000E-04 72 0.134 4.000E-04 72 0.134 1.000E-04 72 0.134 1.000E-04 72 0.134 0.00E-04 72 0.134 0.00E-04 72 0.134 0.00E-04 86 ND				Н	1.908E-06	4	4.770E-07
58 0.249 6.000E-04 56 0.005-04 56 0.0558 1.300E-03 56 0.258 6.000E-04 56 0.258 1.300E-03 56 0.0258 6.000E-04 57 0.134 3.000E-03 1.000E-03 56 0.373 9.000E-04 57 0.034 1.000E-04 57 0.134 4.000E-04 57 0.134 0.000E-04 58 0.056 0.056 2.000E-04 58 0.056 0.056 2.000E-04 58 0.056 0.056 2.000E-04 58 0.056 0.056 0.056 0.00E-04 58 0.056 0.056 0.00E-04 58 0.056 0.056 0.00E-04 58 0.056 0.00E-04 58 0.056 0.056 0.00E-04 58 0.056 0.056 0.00E-04 58 0.056 0.056 0.00E-04 100 0.058 0.00E-04 1000E-04					1.359E-05	4	3.399E-06
56 0.558 1.300E-04 56 0.258 6.000E-04 57 0.134 3000E-04 58 0.373 9.000E-04 59 0.429 1.000E-04 50 0.429 1.000E-04 50 0.0086 2.000E-04 50 0.0086 0.0086-04 50 0.0086 0.0086-04 50 0.0086 2.000E-04 50 0.0086 2.000E-04 50 0.0086 0.0086 0.0086-04 50 0.0086 0.0086-04 50 0.0086 0.0086-04 50 0.0086 0.0086-04 50 0.0087 0.000E-04 50 0.0087 0.0086-04 50 0.0087 0.000E-04 50 0.0087 0.0086-04 50 0.0087 0.0086-04 50 0.0087 0.0086-04 50 0.0087 0.0088-04 50 0.0087 0.000E-04 50 0.0087 0.0088-04 50 0.0087 0.0088-04 50 0.0087 0.0088-04 50 0.0087 0.0088-04 50 0.0087 0.0088-04 50 0.0087 0.0088-04 50 0.0087 0.0088-04 50 0.0087 0.0088-04 50 0.0087 0.0088-04 50 0.0087 0.0088-04 50 0.0087 0.0088-04 50 0.0087 0.0088-04 50 0.0088 0.0088-04 50 0.0088-0				4 35,643	4.770E-07	4	1.192E-07
56 0.1258 6.000E-04 54 0.134 3.000E-04 58 0.373 9.000E-04 56 0.429 1.000E-04 56 0.036 2.000E-04 72 0.134 4.000E-04 70 0.034 1.000E-04 86 0.034 1.000E-04 88 0.0056 2.000E-04 89 0.056 3.000E-04 89 0.056 3.000E-04 89 0.056 3.000E-04 89 0.056 3.000E-04 80 0.056 3.000E-04 80 0.052 1.000E-04 80 0.052 1.000E-04				+	3.100E-06	4	7.751E-07
54 0.134 3.000E-04 58 0.429 1.000E-04 56 0.429 1.000E-03 72 ND ND ND 56 0.086 2.000E-04 70 0.134 4.000E-04 70 0.034 1.000E-04 70 0.034 1.000E-04 70 0.034 1.000E-04 70 ND ND ND 70 ND ND 70 ND ND 86 ND ND ND 86 ND 86 ND ND 86 ND 86 ND 87 ND 88 ND 89 ND 80 ND 89 ND 80 ND 8				+	1.431E-06	4	3.5//E-0/
56 0.373 9.000E-04 56 0.429 1.000E-03 72 0.086 2.000E-04 72 0.134 4.000E-04 72 0.134 1.000E-04 88 ND				+	/.155E-0/	4	1.789E-07
56	E 4 4 4 4			+	ON	4	ON C
72 ND	4 4 4 4			35,643	2.385E-Ub	4	5.30ZE-U/
100	4 4 4 4			ľ	UN .	*	1 1005 07
7.0 N.D			\prod	35,043	4.7 / UE-U/	1	ND ND
72 0,134 4,000E-04 70 0,034 1,000E-04 72 0,134 4,000E-04 72 0,134 4,000E-04 72 0,134 4,000E-04 68 ND ND ND 70 ND ND ND 70 ND ND ND 86 ND ND ND 70 ND ND 86 ND ND ND 86 ND 86 ND 86 ND 87 ND 88 0,056 2,000E-04 84 ND 84 ND 84 ND 84 ND 84 ND 84 ND 85 0,056 2,000E-04 86 0,052 1,000E-04 87 ND 87 ND 88 0,052 1,000E-04 87 ND 87 ND 87 ND 88 0,052 1,000E-04 87 ND 88 0,056 2,000E-04 88 0,052 1,000E-04 89 0,052 1,000E-04		1	$\frac{1}{1}$	+	70 2000 0		E 062E-08
70 0.034 1.000E-04				+	2.363E-0/		ND ON
7.2 0.034 1.000E-04 68 ND ND ND 70 ND ND ND 70 ND ND ND 86 ND ND 87 ND ND 88 ND ND ND 88 ND ND ND 88 ND ND ND 89 ND ND 84 ND ND 84 ND ND 86 ND ND 87 ND ND 88 ND ND 88 ND ND 89 ND ND 89 ND ND 80 ND ND 80 ND ND 80 ND ND 80 ND ND 81 ND ND 81 ND ND 82 ND 84 ND ND 85 ND 86 ND ND 87 ND 87 ND 87 ND 88 ND 89 ND 80 ND 8		2	0.933 1.072E-07	+	2 385E-07	4	5 962F-08
He many control of the control of th			0.333 1.072E-04	$\frac{1}{1}$	2.385E-07	4	5 962E-08
70 ND		-	1	\downarrow	Q	4	Q
70 ND			0.933 ND	35,643	QV	4	QN
70 ND	QN	ON	0.933 ND	35,643	QN	4	2
96 ND				35,643	Q	4	2
10		ON	0.933 ND	35,643	9	4	2
84 ND ND ND ND ND ND ND N				35,643	2	4	2
100 100			0.933 ND	35,643	2 2	4	2 2
100 E-04 ND			-	35 643	2 2	4	Q Z
86 0.056 2.000E-04 86 ND ND ND 84 ND ND 86 0.056 2.000E-04 84 ND ND 84 ND 85 0.029 1.000E-04 100 0.024 1.000E-04			0.933 ND	-	Q	4	Q
86 ND ND 84 ND ND 84 ND ND 86 0.056 2.000E-04 84 ND ND 84 0.029 1.000E-04 70 4.171 2.800E-04	4	-04	1.0		2.385E-07	4	5.962E-08
84 ND	ND 1.000E-04				2	4	Ð
84 ND		QV	0.933 ND	35,643	2	4	2
86 0.056 2.000E-04 84 ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND		$\frac{1}{1}$	2		QN .	4	ON LOSS
84 ND ND 84 ND ND 84 ND ND 84 0.029 1.000E-04 100 0.024 1.000E-04	1.0	40	1:0	1	2.385E-07	4	5.962E-08
84 ND		ON	0.933 ND	33,043	2	1	2 2
84 ND ND ND 100 100 100 100 100 100 100 100 100 10			0.933 ND	35,643	2	4	2 2
84 0.029 1.000E-04 100 0.024 1.000E-04 22 1.121 2.800E-04	1			35,643	2	4	2
100 0.024 1.000E-04	1.000E-04 1.000E-04	1	0.933 ND	35,643	2	4	2 2
78 1 1171 3 BUVE-03	4		1	+	ON 1995	•	ON TOOL
50-1000:0	-03	-03	+	3 35,643	7.632E-U6	4	1.908E-06
84 ND	QN	QN	0.933 ND	1	2 2	4	22
100 DN 001	+		+	+	22	•	2 2
tane 100 ND ND	1		0.933	35,043	2 2	4	2 2
3-Methylhexane ND ND 3.00	ND 3.000E-04	ON		33,043	2	*	2

TABLE A-9. AEC - VOC RUN NO. 2 DATA FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

					Background						
	Molecular	Average Concentration -	Average Concentration -	Background - Concentration,	Corrected Concentration -	Dilution	Corrected Concentration -	Initial Plume	Sample Total	Number of	Emission Factor - Run
Compound (a)	Weight	Run 2, ppbv	Run 2, mg/m³	mg/m³	Run 2, mg/m²	Factor (b), %	Run 2, mg/m³	Volume, ft	2, lb	Items	2, lb/item
2,2,4-Trimethylpentane	114	0.148	7.000E-04	2.000E-04	5.000E-04	0.933	5.359E-04	35,643	1.192E-06	4	2.981E-07
n-Heptane	100	0.048	2.000E-04	1.000E-04	1.000E-04	0.933	1.072E-04	35,643	2.385E-07	4	5.962E-08
2,4,4- i nmetnyi- i -pentene	112	Q .	2	9	QN	0.933	Q	35,643	<u>Q</u>	4	2
Metnylcyclonexane	86	ON C	Q	Q	2	0.933	Q	35,643	Q	4	2
2,4,4-1 nmetnyr-z-pentene	211	2 2	2	Q.	0	0.933	2	35,643	Q	4	2
z,5-Ulmetnylnexane	114	Q S	QN.	Q	2	0.933	Q	35,643	Q	4	2
2,4-Uimetriyinexane	114	ON S	QN .	Q	2	0.933	Q	35,643	Q	4	2
z,s,4-i rimetnyipentane	114	0.021	1.000E-04	1.000E-04	0.000E+00	0.933	QN	35,643	Q	4	2
l oluene	35	0.496	1.900E-03	5.000E-04	1.400E-03	0.933	1.501E-03	35,643	3.339E-06	4	8.347E-07
2,3-Dimethylnexane	114	Q	Q	Q	Q	0.933	QN	35,643	QN	4	QN.
Z-Metnyneptane	111	QN.	Q	QN	Q	0.933	Q	35,643	QN	4	Q
3-Ethylhexane	114	Q	9	Q	Q	0.933	Q	35,643	QN	4	NO
Z,Z-Uimetnyineptane	128	QN	Q	Q	QN	0.933	Q	35,643	ON	4	Q
2,2,4-1 rimethylhexane	128	QN	Q	Q	Q	0.933	QN	35,643	QN	7	Q
n-Octane	114	Q	Q	Q	QV	0.933	QN	35,643	QN	7	Q
Ethylcyclohexane	112	QN	Q	Q	ND	0.933	QN	35,643	QN	4	9
Ethylbenzene	160	0.075	5.000E-04	1.000E-04	4.000E-04	0.933	4.287E-04	35,643	9.540E-07	4	2.385E-07
m-Xylene & p-Xylene	106	0.181	8.000E-04	5.000E-04	3.000E-04	0.933	3.215E-04	35,643	7.155E-07	4	1.789E-07
Styrene	104	Q	QN	QN	Q	0.933	ON	35,643	QN	4	QV
o-Xylene	106	0.159	7.000E-04	2.000E-04	5.000E-04	0.933	5.359E-04	35,643	1.192E-06	4	2.981E-07
n-Nonane	128	0.094	5.000E-04	Q	5.000E-04	0.933	5.359E-04	35,643	1.192E-06	4	2.981E-07
Propyidenzene	120	Q	QN	QN	ON	0.933	QN	35,643	ON	4	QN
n-Propylbenzene	120	0.020	1.000E-04	QN	1.000E-04	0.933	1.072E-04	35,643	2.385E-07	7	5.962E-08
p-Ethyltotuene	120	0.100	5.000E-04	QN	5.000E-04	0.933	5.359E-04	35,643	1.192E-06	4	2.981E-07
m-Ethyitoluene	120	090.0	3.000E-04	QN	3.000E-04	0.933	3.215E-04	35,643	7.155E-07	4	1.789E-07
1,3,5-1 nmethylbenzene	120	0.080	4.000E-04	QN	4.000E-04	0.933	4.287E-04	35,643	9.540E-07	4	2.385E-07
o-Ethyltoluene	120	090.0	3.000E-04	QN	3.000E-04	0.933	3.215E-04	35,643	7.155E-07	4	1.789E-07
1,2,4-Trimethylbenzene & sec-Butylbenzene	120	0.220	1.100E-03	4.000E-04	7 000F-04	0 933	7 503E-04	35 643	1 660E-06		4 4745 07
n-Decane	142	QN	Q	Q	Q	0.933	GN	35 643	NO TON	4	
alpha-Pinene	136	QN	QN	QV	QN	0.933	2	35,643	2	4	S
beta-Pinene	136	QN	QN	QN	QN	0.933	QN	35,643	Q.	4	Q
delta 3-Carene	136	QN	QN	QN	ON	0.933	ON	35,643	Q	4	2
d-Limonene	136	Q	g	QN	ND	0.933	ON	35,643	QN	4	QV.
MIBE	88 5	ON.	Q :	Q	Q	0.933	Q	35,643	Q	4	QN
Dishlorodilli issomethese	201	ON	ON	QN	2	0.933	외	35,643	Q	4	Q
Mothyloploide	NZ S	0.189	9.456E-04	5.226E-04	4.230E-04	0.933	4.534E-04	35,643	1.009E-06	4	2.522E-07
Dichlorotetraffioroethane	2,5	2 2	OZ S	2 5	2	0.933	QV	35,643	Q	4	Q
Chlomethana	63	2 2	ON CAN		2 2	0.933	2	35,643	Q.	4	9
1 3-Butadiana	3 2	3610	1000	2 2	00.20	0.933	ON	35,643	ON	4	2
Methybromide	4 4	OC. 130	3.031E-04	2 2	3.051E-04	0.933	3.270E-04	35,643	7.277E-07	4	1.819E-07
Ethychloride	64 5	2 2		2 2	2 2	0.955	2	35,043	2	4	
Trichloromonofluoromethane	137	0.429	9 AA7E-03	ND 524E 03	NO 7 200E OF	0.933	2 2	35,643	2	4	2
Vinylidenechloride	26	GN	ND ND	Z.3Z1E-U3	-7.369E-US	0.933	2.5	35,643	2 2	4	2
Methylenechloride	85	1.316	4.652E-03	4.020E-04	4.250E-03	0.933	4 555F-03	35,643	1 014E-05	4	ND 2 534E.06
Allylchloride	76.5	QN	QN	2	Q	0.933	GN GN	35.643	S CN	7 7	NO CN
1,1,2-Trichloro-1,2,2-trifluoroethane	188	0.107	8.358E-04	8.606E-04	-2.476E-05	0.933	S	35,643	2	4	S
1,1-Dichloroethane	66	QN	ND	ND	QN	0.933	Q	35,643	Q	4	200
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TABLE A-9. AEC - VOC RUN NO. 2 DATA FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

	Molecular	Average Concentration -	Average Concentration -	Background - Concentration,	Background Corrected Concentration -	Dilution Correction	Corrected Concentration -	initial Plume	Sample Total Material - Run	Number of	Corrected Emission Factor - Run
Compound (a)	Weight	Run 2, ppbv	Run 2, mg/m³	mg/m,	Run 2, mg/m²	Factor (b), %	Run 2, mg/m³	Volume, ft²	2, lb	Items	2, Ib/item
1,2-Dichloroethene	97	QN	Q	ON	QN	0.933	QN	35,643	QN	4	QN
Chloroform	119	2	9	QN	QN	0.933	Q	35,643	Q	4	QN
1,2-Dichloroethane	66	2	QN	QN	Q	0.933	NO.	35,643	Q	4	2
Methylchloroform	133	0.065	3.570E-04	3.511E-04	5.822E-06	0.933	6.240E-06	35,643	1.388E-08	4	3.471E-09
Benzene	78	1.191	3.865E-03	6.103E-04	3.255E-03	0.933	3.489E-03	35,643	7.762E-06	4	1.941E-06
Carbontetrachloride	154	0.123	7.876E-04	7.028E-04	8.479E-05	0.933	9.088E-05	35,643	2.022E-07	4	5.056E-08
,2-Dichloropropane	113	Q	QN	ND	GN	0.933	ON	35,643	QN	4	Q
richloroethylene	133	QN	QN	ON	QN	0.933	QN	35,643	2	4	2
cis 1,3-Dichloro-1-propene	111	QN	ON	QN	QN	0.933	QN	35,643	Q	4	ě
trans 1,3-Dichloro-1-propene	111	ON	ON	ON	QN	0.933	QN	35,643	Q	4	ð
,1,2-Trichloroethane	133	QN	QN	QN	ND	0.933	QN	35,643	QN	4	2
Toluene	92	0.505	1.933E-03	5.086E-04	1.424E-03	0.933	1.526E-03	35,643	3.396E-06	4	8.490E-07
1,2-Dibromoethane	188	Q	Q	QN	ND	0.933	QN	35,643	QN	4	Q
Perchloroethylene	166	QN	QN	QN	QN	0.933	QN	35,643	QN	4	2
Chlorobenzene	113	QN	QN	ON	QN	0.933	Q	35,643	QN	4	2
Ethylbenzene	160	0.115	7.676Ë-04	QN	7.676E-04	0.933	8.228E-04	35,643	1.831E-06	4	4.577E-07
m&p-Xylene	106	0.248	1.094E-03	4.541E-04	6.398E-04	0.933	6.858E-04	35,643	1.526E-06	4	3.815E-07
Styrene	104	QN	Q	ON	QN	0.933	QN	35,643	QN	4	ΩΩ
1,1,2,2-Tetrachloroethane	168	Q	Q	ND ND	QN	0.933	QN	35,643	ΩN	4	Q
o-Xylene	106	0.161	7.120E-04	ON	7.120E-04	0.933	7.631E-04	35,643	1.698E-06	4	4.245E-07
p-Ethyltoluene	120	0.063	3.170E-04	Q	3.170E-04	0.933	3.398E-04	35,643	7.560E-07	4	1.890E-07
,3,5-Trimethylbenzene	120	9	Q	Q	Q	0.933	QV	35,643	QN	4	Q
,2,4-Trimethylbenzene	120	0.146	7.311E-04	4.490E-04	2.820E-04	0.933	3.023E-04	35,643	6.727E-07	4	1.682E-07
Benzylchloride	127	Q.	9	2	Q	0.933	Q	35,643	QN	4	2
m-Dichlorobenzene	147	2	9	2	Q	0.933	9	35,643	Q	4	Q
p-Dichlorobenzene	147	Q	Q	2	Q	0.933	Q	35,643	Q	4	Q
o-Uichiorobenzene	147	Q !	Q.	9	Q	0.933	Q	35,643	Q	4	Q
,z,4-1 richiorobenzene	181	2	Q !	9	2	0.933	2	35,643	Q	4	9
Hexachiorobutadiene	192	Q.	2	Q	2	0.933	Q	35,643	Q	4	2
Pnenylacetylene	102	Q	Q S	QV.	Q.	0.933	Q	35,643	Q	4	2
Indane o o Nitudea 4 method 411 indane	812	2 5	Q	Q	2	0.933	Q	35,643	Q	4	Q
2 Dibids 4 moths 41 indepe	132	22	2 5	2 5	2	0.933	Q.	35,643	Q	4	2
יייייייייייייייייייייייייייייייייייייי	200	20,0	ON LESS	ON C		0.933	S	35,643	Q	4	2
Naprimalene 3 Mothylosopholoso	87	0.185	9.847E-04	4.734E-04	5.113E-04	0.933	5.481E-04	35,643	1.219E-06	4	3.049E-07
- Methylosophibalone	242	2 2	2 2	2 2	2	0.933	2	35,643	2	4	2
Cyanopo	247	2 2		2 2	2 2	0.933	2 2	35,643	2 5	4	2
Mathylnitria	19	6693	1 7505-03	2 2	1 750E 03	0.933	A SOCE AS	35,043	ND 1 105T	4	20,00
Acetonitrile	41	0.091	1 547E-04	2 5	1 5475-04	0.333	1 6595-03	35,643	4.193E-00	7	0.000
Acrylonitrile	53	Q	2	2	Q	0.933	GN	35,643	CN	4	NO ON
Nitromethane	61	0.552	1.401E-03	2	1.401E-03	0.933	1.501E-03	35,643	3.341E-06	4	8.352F-07
Propanenitrile	55	0.058	1.324E-04	QN	1.324E-04	0.933	1.419E-04	35.643	3.157E-07	4	7.892F-08
2-Methylpropanenitrile	69	QV	QN	Q	9	0.933	Q.	35,643	2	4	2
Pentanenitrile	83	QN	Q	Q	QN	0.933	QN	35,643	2	4	2
Hexanenitrile	- 6	QN	QN	QN	QN	0.933	QN	35,643	Ð	4	2
Benzonitrile	103	2	Q	QN	QN	0.933	QN	35,643	QN	4	S
2-Nitrophenol	139	S	Q	Q	QN	0.933	QN	35,643	QN	4	QN
Acrolein	26	1.522	3.545E-03	Q	3.545E-03	0.933	3.800E-03	35,643	8.455E-06	4	2.114E-06
Acetone	36	4.953	1.154E-02	5.964E-03	5.575E-03	0.933	5.975E-03	35,643	1.330E-05	4	3.324E-06

TABLE A-9. AEC - VOC RUN NO. 2 DATA FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

Compound (a) 2-propanone opanal				-	Background						
2-propanone opanal	Molecular Weight	Average Concentration - Run 2, ppbv	Average Concentration - Run 2, mg/m³	Background - Concentration, mg/m³	Concentration - Run 2, mg/m³	Dilution Correction Factor (b), %	Concentration - Run 2, mg/m³	Initial Plume Volume, ft³	Sample Total Material - Run 2, lb	Number of tems	Emission Factor - Run 2, lb/Item
Furan 2-Propanol 2-Methylpropanal	74	0.088	2.717E-04	Q	2.717E-04	0.933	2.912E-04	35,643	6.479E-07	4	1.620E-07
2-Propanol 2-Methylpropanal	89	0.258	7.307E-04	QV	7.307E-04	0.933	7.832E-04	35,643	1.743E-06	4	4.357E-07
2-Methylpropanal	09	₽	S	2	QN	0.933	QN	35,643	Q	4	QV
	74	QV	QN	QN	QN	0.933	ΝĎ	35,643	QN	4	ND
1-Propanol	09	ON	QN	QN	QN	0.933	QN	35,643	ON	4	QN
Methacrolein	70	ND	QN	ON	ON	0.933	QN	35,643	QN	4	QN
Methyl-vinyl Ketone	70	0.167	4.865E-04	ON	4.865E-04	0.933	5.214E-04	35,643	1.160E-06	4	2.901E-07
MTBE	88	QN	QN	ON	ON	0.933	QN	35,643	QN	4	Q
2,3-Butanedione	98	QN	QN	QN	ON	0.933	QN	35,643	QN	4	Q
Butanal	72	0.085	2.534E-04	2.005E-04	5.284E-05	0.933	5.663E-05	35,643	1.260E-07	4	3.150E-08
2-Butanone	72	0.653	1.956E-03	8.091E-04	1.147E-03	0.933	1.229E-03	35,643	2.735E-06	4	6.838E-07
2-Methyl-1,3-dioxolane	88	QN	QN	QN	GN	0.933	QN	35,643	QN	4	QN
2-Methylfuran	82	Q	Q	N.	QN	0.933	QN	35,643	QN	4	QN
Tetrahydrofuran	72	QN	QN	QN	QN	0.933	QN	35,643	ON	4	ND
trans-2-Butenal	20	0.148	4.303E-04	QN	4.303E-04	0.933	4.612E-04	35,643	1.026E-06	4	2.566E-07
Acetic Acid	09	0.704	1.757E-03	1.550E-03	2.073E-04	0.933	2.222E-04	35,643	4.944E-07	4	1.236E-07
1-Butanol	74	QN	ON	ND	ON	0.933	QN	35,643	QN	4	QN
2-Pentanone	98	0.080	2.863E-04	ND	2.863E-04	0.933	3.069E-04	35,643	6.829E-07	4	1.707E-07
Pentanal	98	0.263	9.410E-04	1.075E-03	-1.338E-04	0.933	QN	35,643	ND	4	QN
1,4-Dioxane	88	ND	ND	NO	QN	0.933	ON	35,643	ND	4	Q
Methyl Methacrylate	100	ND	ON	ND	QN	0.933	ON	35,643	QN	4	9
Cyclopentanone	84	ND	ON	ND	QN	0.933	QN	35,643	ND	4	Q
Hexanal	100	0.119	4.954E-04	4.894E-04	6.005E-06	0.933	6.437E-06	35,643	1.432E-08	4	3.581E-09
2-Furaldehyde	96	0.647	2.585E-03	ND	2.585E-03	0.933	2.770E-03	35,643	6.164E-06	4	1.541E-06
Cyclohexanone	86	Q	Q	Q	Q	0.933	Q	35,643	Q	4	2
Heptanal	114	0.113	5.343E-04	4.613E-04	7.300E-05	0.933	7.824E-05	35,643	1.741E-07	4	4.352E-08
2-Butoxyethanol	118	Q	Q	5.094E-04	2	0.933	9	35,643	Q	4	Q
Benzaldehyde	106	0.484	2.135E-03	7.071E-04	1.428E-03	0.933	1.531E-03	35,643	3.406E-06	4	8.514E-07
6-Methyl-5-hepten-2-one	126	ND	ND	1.540E-03	QN	0.933	QN	35,643	ND	4	Q
Octanal	128	0.210	1.120E-03	7.641E-04	3.560E-04	0.933	3.816E-04	35,643	8.491E-07	4	2.123E-07
Benzofuran	118	0.073	3.581E-04	ND	3.581E-04	0.933	3.838E-04	35,643	8.541E-07	4	2.135E-07
2-Ethyl-1-hexanol	120	ON	QN	NĎ	QN	0.933	ON	35,643	ND	4	DN
Acetophonone	120	0.054	2.712E-04	QN	2.712E-04	0.933	2.906E-04	35,643	6.467E-07	4	1.617E-07
Nonanal	142	0.220	1.301E-03	1.320E-03	-1.925E-05	0.933	QN	35,643	QN	4	QN
Decanal	156	0.171	1.111E-03	1.329E-03	-2.184E-04	0.933	QN	35,643	ND	4	ND
Carbonyl Sulfide	09	0.182	4.555E-04	1.251E-04	3.304E-04	0.933	3.542E-04	35,643	7.880E-07	4	1.970E-07
Carbon Disulfide	92	33.234	1.051E-01	6.278E-04	1.044E-01	0.933	1.119E-01	35,643	2.491E-04	4	6.227E-05
Thiophene	84	0.148	5.170E-04	Q	5.170E-04	0.933	5.541E-04	35,643	1.233E-06	4	3.082E-07
Dimethyldisulfide	94	ND	ON	ND	ND	0.933	ON	35,643	ND	4	Q

a Compounds in bold represent duplicate values. b Estimated from tracer data as presented in Volume IV.

TABLE A-10. AEC - SVOC DATA EVALUATION FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

Company	Average Concentration •	Average Concentration - Bun 2 morm ³	Average Concentration - Bun 1-2 mo/m ³	Average Concentration - Run 1-2 morm³	Average Background • Concentration,	Average Maximum Detection Limit - Concentration,	Average Minimum Detection Limit - Concentration, motim ³	Background Evaluation Criteria	Minimum Dataction Limit Evaluation Criteria	Background Evaluation Notes	Minimum Detection Limit Evaluation Notes
Perticulate/Venor_phase CVOCe											
N-Nitrosodimethylamine	CN CN	CN	S	S	CN	2 684F-04	2 684F-04	CN	CN	ш	ш
Pyridine	Q.	2	2	2	S S	7.868E-04	7.868E-04	2	2	L	L.
2-Picoline	QN	QN	9	QN	QN	8.177E-04	8.177E-04	QV	Q	ıL	u.
Methyl methanesulfonate	QN	Q	QV	QN	QV	3.093E-04	3.093E-04	QV	Q	F	ц
N-Nitrosomethylethylamine	DN	ON	QN	QN	QN	6.140E-04	6.140E-04	Q	QV	F	F
N-Nitrosodiethylamine	ND	ON	QN	QN	ND	6.557E-04	6.557E-04	QN	ON	Э	ш
Ethyl methanesulfonate	ND	QN	QN	ON	ON	3.016E-04	3.016E-04	QN	ON	F	L.
Phenol	ND	QN	QN	ON	ND	1.928E-04	1.928É-04	QN	QV.	F	т.
Aniline	QN	QN	ND	QN	QN	3.078E-04	3.078E-04	QN	ON O	4	ч
bis(2-Chloroethyl)ether	ON	QN	QN	QN	QN	2.407E-04	2.407E-04	QN	QN	4	ц
Pentachioroethane	2	Q	Q	2	9	5.562E-04	5.562E-04	Q	Q	Ъ	ш
2-Chlorophenol	QV	Q	Q	Q	Q	1.227E-04	1.227E-04	Q	Q.	ц	u.
1,3-Dichlorobenzene	2	Q	QV	QN	Q	2.368E-04	2.368E-04	Q	Q	L.	u.
1,4-Dichlorobenzene	2	2	QN	Q	ND	4.752E-04	4.752E-04	Q	Q	Ŧ	Ľ
Benzyl alcohol		2	2	2	2	5.377E-04	5.377E-04	9	2	u.	<u>ا</u>
2-Methylphenol	2	2	Q	2	QN	4.328E-04	4.328E-04	9	Q	ı	ш
1,2-Dichlorobenzene	2	Q	QN	Q.	QN	3.440E-04	3.440E-04	Q	9	ш	ц
bis(2-Chloroisopropyl)ether	2	9	Q	2	2	2.900E-04	2.900E-04	Q	ND	4	L.
o-Toluidine	0	2	Q	Q	2	3.055E-04	3.055E-04	Q	2	٤	u.
4-Methylphenol/3-Methylphenol	2	Q	Q	2	2	3.656E-04	3.656E-04	9	9	L.	٤.
Acatophonone	ND SERECT	ND 8	ND 2792.9	ND SOC S	1 807E 04	2.158E-04	2.158E-04	ND 202	ND 2	١	L
N-Nitrosomorpholipa	NOCO	ND ND	ND SOL	ND ND	AID AID	6.02EE.04	6.035E-04	9.27 ND	27.7) u	u
N-Nitrosopyrrolidine	2	2	S	2 2	2 2	9.180E-04	9 180E-04	2	S	. Ц.	. u
Hexachloroethane	2	2	2	2	QV	3.811E-04	3.811E-04	S	Q	3	L
Nitrobenzene	2	Q	QV	9	200	6.873E-04	6.873E-04	2	2	L	
N-Nitrosopiperidine	QN	QN	S	2	QN	5.623E-04	5.623E-04	QV	Q	L.	u.
Isophorone	QN	QN	QN	2	QV	1.651E-04	1.651E-04	Ð	g	u	LL.
2,4-Dimethylphenol	QN	QN	QN	QN	QN	2.600E-04	2.600E-04	QN	QN	F	Ł
2-Nitrophenol	QN	QV	ŌN	QN	ON	4.135E-04	4.135E-04	QV	QN	Ь	ч
bis(2-Chloroethoxy)methane	9	Q	2	Q	Q	3.016E-04	3.016E-04	QN	QN	F	u.
Benzoic acid	Q.	2	9	9	2	2.823E-02	2.823E-02	Q	Q	щ	щ
Z,4-Uichiorophenoi	2	2 5	ON!	2	QN.	3.780E-04	3.780E-04	2	Q		ш.
1,2,4-1 richlorobenzene	ON JEGG	Q L				2.723E-04	2.723E-04	QN ,	9	<u>.</u>	щ
O-Chloroapilipe	4.30/E-04	0.95 IE-04	/. IZ9E-04	0.122E-04	2 2	3.446E-04	3.448E-04	00:00	9/1	X	ا د
9 6-Dichlorophanol	2 2	2 2	2 5	2 2	2 2	2 6545-04	2 6545-04	2 2	2 2		
Hexachloropropene	9	2	2	2 9	2 5	4.358F-04	4.358F-04	Q CX	2 2	. և	Lu.
Hexachlorobutadiene	Q	QN	9	QV.	9	3.934E-04	3.934E-04	2	Q	L	
Dimethylphemethylamine	Q	Q	Ð	Q	QV	1.574E-02	1.574E-02	Q	QN	L	L
N-Nitroso-di-n-butylamine	QN	QN	ON	QV	QN	2.885E-04	2.885E-04	QN	Q	ш	L
4-Chloro-3-methylphenol	QV	QN	ON	QV	QN	4.374E-04	4.374E-04	QN	QN	н	ш
Safrole	Q	QV	ON	QN	QN	5.485E-04	5.485E-04	ON	QN	£	ш.
2-Methylnaphthalene	Q	Q	2.530E-04	2.530E-04	QN	2.769E-04	2.769E-04	10.00	0.91	¥	·
1,2,4,5-Tetrachlorobenzene	2	Q	Q	Q	Q	4.212E-04	4.212E-04	2	S	ட	ш
Hexachlorocyclopentadiene	Q	Q	2	Q	Q	8.562E-03	8.562E-03	2	Q	ட	L
2,4,6-Trichlorophenol	Q	9	9	Q	Q	4.868E-04	4.868E-04	9	Q	ц	ш
Z,4,5-1 richlorophenoi	2	Q.	2	Q	Q	4.135E-04	4.135E-04	2	Q	ш	u.
Isosatrole	QV	Q	2	Q	Q	8.331E-04	8.331E-04	9	2	ш	ı.

TABLE A-10. AEC - SVOC DATA EVALUATION FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

March Marc	pairocauco	Average Concentration •	Average Concentration - Run 2. mo/m ³	Average Concentration - Run 1-2. mo/m³	Average Concentration - Run 1-2. mo/m³	Average Background • Concentration,	Average Maximum Detection Limit - Concentration, ma/m³	Average Minimum Detection Limit - Concentration, mq/m³	Background Evaluation Criteria	Minimum Detection Limit Evaluation Criteria	Background Evaluation Notes	Minimum Detection Limit Evaluation Notes
No. No.	2-Chloronaphthalene	QN	QN	QN	QN	QN	4.351E-04	4.351E-04	S	QV	L	ц
The color of the	2-Nitroaniline	Q	QN	Q	Q	QN	2.762E-04	2.762E-04	QN	QN	F	F
No. 10. No.	1,4-Naphthoquinone	QN	QN	QN	Q	QN	7.714E-04	7.714E-04	QN	QN	ш	L
No. No.	Dimethylphthalate	Q	QV	QN	Q	Q	2.245E-04	2.245E-04	Q	QV	u.	1
No. No. No. No. No. No. No. S.450E-04 S.450E-04 No. No.	1,3-Dinitrobenzene	Q	QN	QN	QN	ΝĎ	6.457E-04	6.457E-04	Q	Q	ı.	L
No. No.	2,6-Dinitrotoluene	QV	QN	QN	Q	Q	5.431E-04	5.431E-04	ND	Q	<u>.</u>	L.
No. No.	Acenaphthylene	Q	QN	9	Ð	Q	2.522E-04	2.522E-04	Q	2	<u>.</u>	u.
NO	3-Nitroaniline	Q	Q	Q	Q	Q	6.796E-04	6.796E-04	Q	QN	<u>.</u>	<u>ا</u>
NO	4-Nitrophenol	QN	ON	QV	Q	Q	2.368E-02	2.368E-02	QN	2	<u>.</u>	ш
NO	2,4-Dinitrophenol	Q	Q	Q	Q	Q	2.430E-02	2.430E-02	9	2	<u>u</u>	4
NO	Acenaphthene	Q	Q	Q	Q	QV	2.777E-04	2.777E-04	Q	Q	±	4
NO	2,4-Dinitrotoluene	Q	Q	2	Q	Q	3.433E-04	3.433E-04	Q	9	u [u l
NO	Dibenzofuran	9	QN	QV	Q	Q	1.882E-04	1.882E-04	2	Q	٤,	<u>.</u>
NO	Pentachlorobenzene	9	S	9	Q	Q	5.199E-04	5.199E-04	Q :	Q.	u.	u. I
NO NO NO NO NO NO NO NO	1-Naphthylamine	2	Q	Q	Q	Q	1.358E-03	1.358E-03	Q .	ON !		
NO NO NO NO NO NO NO NO	2-Naphthylamine	Q	Q	Q	Q	Q	1.203E-03	1.203E-03	Q	Q		_
NO	2,3,4,6-Tetrachlorophenol	Q	Q	Q	2	9	5.508E-04	5.508E-04	QN	QN		-
NO	Diethylphthalate	2	2	2.007E-04	2.007E-04	Q	2.006E-04	2.006E-04	10.00	1.00	۷ ا	
NO	4-Chlorophenylphenyl ether	Q	2	Q	Q	Q	2.183E-04	2.183E-04	Q	9		<u>.</u>
ND	Fluorene	Q	Q	Q	2	9	2.623E-04	2.623E-04	9	QV.	۲ ا	4
NO	5-Nitro-o-toluidine	2	2	Q.	QN	0	2.800E-04	2.800E-04	2	QV.		
NO	4-Nitroaniline	Q.	2	Q S	ON	Q S	5.978E-04	5.978E-04		2	٠ ا	
NO	4.6-Dinitro-2-methylphenol	ON.	Q S		Q :	9 5	2.098E-02	2.098E-02	2 5	2 5	ا ا	
No. No.	Diphenylamine/N-NitrosoUPA	2 2	2 2	2 2	2 2		2.839E-04	2.839E-04	S S	2 2	L	L
No. No.	Sym- I mirropenzene	2 2			22	2 2	3.6445.04	3.664E-04	2 2	2 2	- lu	_
No. No. No. No. No. No. No. No. 1937EGM 1937EGM No. No	Phonocotio	2 2	2 5	2 5	2 5	2	1 728E-04	1 728F-04	2	S		L LL
NO	4-Bromonbanylnhanyl ather	2 2	C Z	S	S	CN CN	5.315F-04	5.315F-04	2	S	. u.	. u
No	Hexachlorobenzene	G	S	CZ	CN	2	2.862E-04	2.862E-04	2	2		
ND	4-Aminobiphenyl	Q	2	Q.	QV	2	1.597E-03	1.597E-03	Q	QN	L.	ш
ene ND	Pronamide	QN	Q	QN	QN	Q	1.982E-04	1.982E-04	QV.	QV	u.	u
NO	Pentachiorophenol	QN	Q	QN	QN	Q	2.222E-02	2.222E-02	QN	QN	F	Ł
ND	Pentachloronitrobenzene	ON	QN	ON	QN	ON	1.034E-03	1.034E-03	ON	ON	u.	ш
ND	Phenanthrene	QN	ON	QN	QN	ON	4.706E-04	4.706E-04	Q	Q	L.	ட
March Marc	Anthracene	9	Q	2	QV	Q	2.823E-04	2.823E-04	9	9	u l	L I
1,000	Carbazole	ON ON ON	QN 300 S	ON S	ON CO Joog C	9	1.890E-04	1.890E-04	Q S	ON S	4	± <
ND	A-Nitroniinolina 1.oxida	CA CA	3.333C-03	J. 232E-03	3.03ZE-03	2 2	1 736E-02	1 736F-02	3 5	ON CN	C L	ζLL
ND	Methapyrilene	2	9	QN	QV	2	1.597E-02	1.597E-02	2	2	. L	. L
ND	Finoranthene	QV	QV	QN	QN	9	2.785E-04	2.785E-04	Q	Q	ш	ш
ND	Benzidine	QN	QN .	QN	Q	QV	1.034E-02	1.034E-02	QN	QN	Ь	ш
Denzene ND ND <t< td=""><td>Pyrene</td><td>QN</td><td>QN</td><td>QN</td><td>QN</td><td>QN</td><td>3.826E-04</td><td>3.826E-04</td><td>Q</td><td>Q</td><td>٤</td><td>u.</td></t<>	Pyrene	QN	QN	QN	QN	QN	3.826E-04	3.826E-04	Q	Q	٤	u.
ND	p-Dimethylaminoazobenzene	Q	Q	QN	QN	QV	2.839E-04	2.839E-04	Q	Q	u.	щ
ND ND ND ND ND 1450E-02 1450E-02 ND ND F	Chlorobenzilate	Q	Q	Q	QN	Q	3.950E-04	3.950E-04	2	Q	L.	щ
1.01E-03 1.861E-03 1.595E-03 1.489E-03 1.581E-04 1.581E-04 1.000 9.42 A	Kepone	Q	9	2	Q	Ð	1.450E-02	1.450E-02	9	9	ا ــــا	ш
3:-Unmetryloenzigine ND ND ND ND ND ND ND ND F A-Setylaminolluorene ND 1.115E-03 7.3912E-04 9.531E-04 2.407E-04 ND ND F S(2-Ehylaminolluorene ND 1.115E-03 7.3912E-04 9.531E-04 2.407E-04 ND ND F A-Sichiluorene ND ND ND ND F P A-Sichiluorene ND ND ND ND P P A-Sichiluorene ND ND ND 3.487E-04 ND ND F	Butylbenzylphthalate	1.011E-03	1.861E-03	1.595E-03	1.489E-03	2	1.581E-04	1.581E-04	10.00	9.42	Y.	1 0 (1)
No. of the control	3,3-Dimethylbenzidine		2 2	ON CA	2 2	2 2	1.527E-03	1.527E-03	2 2	2 2	L	L
3-Dichlorober/zilne ND ND ND 2.584E-04 ND ND F enzialanthracene ND ND ND ND ND F	his/2-Ethylhexyllohthalate	9 5	1.115F-03	7 912F-04	9 531F-04		9.411F-04	9 411F-04	200	101	. u	- 0
enzialanthriacene ND ND ND ND 3.487E-04 3.487E-04 ND	3.3-Dichlorobenzidine	Q.	Q Q	QN	GN		2.584E-04	2.584E-04	2	2		s LL
	Benz(a)anthracene	2	2	Q	Q	2	3.487E-04	3.487E-04	2	2	ti.	L

TABLE A-10. AEC - SVOC DATA EVALUATION FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

e t		П		П			П			
Minimum Detection Lim Evaluation Notes	ш	н	L	ш	Ħ	Ŀ	Ŧ	ц	F	F
Background Evaluation Notes	щ	Ŧ	¥	H	u.	ъ.	ш	щ	ŭΣ	F
Minimum Detection Limit Evaluation Criteria	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN
Background Eveluation Criteria	QN	QN	Q	QN	QV	QN	QN	Q	QN	ND
Average Minimum Detection Limit - Concentration, mg/m³	3.764E-04	2.407E-04	3.556E-04	2.144E-04	4.482E-04	2.538E-04	9.025E-04	1.689E-04	1.898E-04	1.820E-04
Average Maximum Detection Limit - Concentration, mg/m³	3.764E-04	2.407E-04	3.556E-04	2.144E-04	4.482E-04	2.538E-04	9.025E-04	1.689E-04	1.898E-04	1.820E-04
Average Background - Concentration mg/m³	Q	QN	QN	QN	QŅ	QN	QN	Q	QN	QN
Average Concentration - Run 1-2, mg/m ⁴	QV	QN	QN	QN	QN	QN	QN	Q	QN	ON
Average Concentration - Run 1-2, mgm³	Q	QN	QN	QN	QN	QN	QN	QN	QN	QN
Average Concentration - Run 2, mg/m³	QV	QN	QN	ON	ND	QN	QN	QV	QN	QN
Average Concentration - Run 1, mg/m²	Q	QN	ON	QN	QN	QN	QN	Q	QN	QN
Compound	hrysene	-n-octylphthalate	12-Dimethylbenz(a)anthracene	Benzo(b)fluoranthene (a)	ienzo(k)fluoranthene (a)	Benz(a)pyrene	-Methylcholanthrene	ndeno(1,2,3-cd)pyrene	libenz(a,h)anthracene	Benzo(g,h,i)perylene

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

A = Identified as a contaminant (greater than or equal to 10 times background or minimum MQL)
B = Likely contaminant (less than 10 and greater than or equal to 5 times background or minimum MQL)
C = Probable contaminant (less than 5 and greater than or equal to 2 times background or minimum MQL)
D = Measured, but accuracy or presence questionable (less than 2 and greater than or equal to 1 times background or minimum MQL)
F = Not considered a contaminant (less than 1 times background or minimum MQL)

TABLE A-11. AEC - SVOC RUN NO. 1 DATA FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

Compound	Molecular Weight	Average Concentration - Run 1, ppbv	Average Concentration - Run 1, mg/m³	Background - Concentration, mg/m³	Background Corrected Concentration - Run 1, mg/m³	Dilution Correction Factor (b), %	Corrected Concentration - Run 1, mg/m³	Initial Plume Volume, ft³	Sample Total Material - Run 1, Ib	Number of Items	Corrected Emission Factor - Run 1, ib/item
					1						
N-Nitrosodimethylamine	74	QN	QX	QN	QN	0.8797	Q	37.342	QN	4	QN
Pyridine	62	9	QN	2	QN	0.8797	ON	37,342	Q	4	QN ON
2-Picoline	93	Q	QN	QN	QN	0.8797	QN	37,342	Q	4	Q
Methyl methanesulfonate	110	Q	QN	QN	Q	0.8797	QN	37,342	Q	4	QN
N-Nitrosomethylethylamine	88	Q	QN	QN	QN	0.8797	Q	37,342	S	4	QN
N-Nitrosodiethylamine	102	QN	QN	QN	QN	0.8797	QN	37,342	Q	4	QN
Ethyl methanesulfonate	124	QN	QN	Ö	QN	0.8797	Q	37,342	Ð	4	QN
Phenol	94	QN	QN	QN	Q	0.8797	Q	37,342	Q	4	ON.
Aniline	93	Q.	Q	Q	Q	0.8797	Q	37,342	Q	4	QN
bis(2-Chloroethyl)ether	143	QN	QN	QN	g	0.8797	QV	37,342	2	4	QN
Pentachloroethane	202	QN	Q.	9	QN	0.8797	ON	37,342	QN	4	QN
2-Chtorophenol	129	QN	QN	QV	Q	0.8797	QN	37,342	Q	4	QN
1,3-Dichlorobenzene	147	QN	Q	ę	Q	0.8797	Q	37,342	QN	4	QN
1,4-Dichlorobenzene	147	QN	Q	2	Q	0.8797	QN	37,342	QN	4	QN
Benzyi alcohol	108	QN	QN	QN	QN	0.8797	QN	37,342	QN	4	ND
2-Methylphenol	108	QN	QN	Q	QV	0.8797	QV	37,342	QN	4	QN
1,2-Dichlorobenzene	147	QN	QN	QN	Q	0.8797	ON	37,342	QN	4	QN
bis(2-Chloroisopropyl)ether	171	QN	QN	QN	QN	0.8797	ND	37,342	QN	4	QN
o-Toluidine	107	QN	ND	QN	QN	0.8797	ON	37,342	QN	4	QN
4-Methylphenol/3-Methylphenol	108	ON	QN	QN	QN	0.8797	QN	37,342	Q	4	QN
N-Nitroso-di-n-propylamine	130	QN	Q	QN	QN	0.8797	Q	37 342	Q	4	Q
Acetophenone	120	0.108	5.368E-04	1.897E-04	3.470E-04	0.8797	3.945E-04	37,342	9.197E-07	4	2.299E-07
N-Nitrosomorpholine	116	Q	Q	Q	9	0.8797	2	37,342	2	4	Q
N-Nitrosopyrrolidine	8 19		QN	QN S	ON.	0.8797	2 2	37,342	2 2	4	Q C
Hexachioroethane	/53/	2 2		2 2	2 2	0.8797	2	37,342	2	•	2
Nitrobenzene	123	2 2	Q.	2	2	0.8797		37,342		4	2 2
N-Mirosopiperiame	400	2 2	2 2	2 2	2 2	0.0797	2 2	24.75	2 2	*	2 5
isopriorne	200	2 2	ON CA		2 2	0.8/9/	2 2	37,342	2 2	4	2
Z,4-Umemypheno	130	2 2	2 2	ON CA	2	0.6/9/	2 2	37,342	2 2	•	2 2
his/2-Chloroethow/mothana	173	9 5	2 5	2 5	2 2	0.0737	2 2	37.75	2 2		2 2
Benzoic acid	122	CZ	CX	S	2 5	0.8797	GN CN	37.342	Q.	4	S
2.4-Dichlorophenol	163	Q.	QV	Q	2	0.8797	Q	37.342	2	4	2
1,2,4-Trichlorobenzene	181	QN	QN	Q	QN	0.8797	QN	37,342	Q	4	QN
Naphthalene	128	0.081	4.307E-04	QN	4.307E-04	0.8797	4.896E-04	37,342	1.141E-06	4	2.853E-07
p-Chloroaniline	128	QN	QN	QN	ON	0.8797	QN	37,342	Q	4	QN
2,6-Dichlorophenol	163	Q	ON	QN	Q	0.8797	2	37,342	2	4	Q
Hexachloropropene	249	Q	Q	QN	2	0.8797	Q	37,342	Q	4	QN
Hexachlorobutadiene	261	Q	Q	QN	Q	0.8797	2	37,342	2	4	Q
Dimethylphenethylamine	149	QN.	Q	Q	QN	0.8797	2	37,342	2	4	Q
N-Nitroso-di-n-butylamine	158	Q	Q	Q	QN	0.8797	QN	37,342	Q	4	9
4-Chloro-3-methylphenol	143	2	Q	Q	QN	0.8797	ON:	37,342	Q.	4	Q :
Safrole	162	Q	9	QN	QN	0.8797	QN	37,342	Q	4	Q
2-Methylnaphthalene	142	9	9	9	Q	0.8797	2	37,342	2	4	Q
1,2,4,5-Tetrachlorobenzene	216	Q	2	9	Q	0.8797	Q	37,342	9	4	Q :
Hexachiorocyclopeniadiene	2/3	2	2	Q !	2	0.8/9/	200	37,342	2 5	4	2
Z,4,5- I nchlorophenol	18/	2	ΩN	ON.	2	0.8797	2	37.342	2	4	2

TABLE A-11. AEC - SVOC RUN NO. 1 DATA FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

	Molecular	Average Concentration -	Average Concentration -	Background - Concentration,	Background Corrected	Dilution	Corrected Concentration -	Initial Plume	Sample Total Material - Run	Mumber of	Corrected Emission Factor - Bun
Compound	Weight	Run 1, ppbv	Run 1, mg/m³	_mg/m_	Run 1, mg/m³	Factor (b), %	Run 1, mg/m³	Volume, ft3	1, lb	Items	1, Ib/Item
2,4,5-Trichlorophenol	197	QN	QN	QN	QN	0.8797	QN	37,342	Q	4	QN
Isosafrole	162	Q	QN	QN	ON	0.8797	9	37,342	QN	4	Q
2-Chloronaphthalene	163	Q	QV	QN	QN	0.8797	Q	37,342	Q	4	9
2-Nitroaniine	138	Q	Q	Q	QN	0.8797	QN	37,342	QN	4	Q
1,4-Naphthoquinone	158	Q	Q	QN	QN	0.8797	ON	37,342	QN	4	Q
Dimethylphthalate	194	Q	QN	Q	Q	0.8797	QN	37,342	Q	4	Q
1,3-Dinitrobenzene	168	QN	ON	ON	DN	0.8797	Q	37,342	Q	4	Q
2,6-Unitrotoluene	182	QN	Q.	Q	QN	0.8797	QN	37,342	Q	4	Q
Acenaphthylene	152	Q	Q	Q	QN	0.8797	ON	37,342	QN	4	Q
3-Nitroaniine	138	QN	Q	QN	QN	0.8797	ON	37,342	Q	4	Q
4-Nitrophenol	139	QN	QN	QN	QN	0.8797	QN	37,342	Q	4	Q
2,4-Dinitrophenol	184	QV	Q	QN	QN	0.8797	QN	37,342	Q	4	2
Acenaphthene	154	Q.	ON	QN	QN	0.8797	Q	37,342	Q	4	S
2,4-Dinitrotoluene	182	QN	QN	QN	QN	0.8797	Q	37,342	S	4	Q
Dibenzoturan	168	QN	QN	Q	Q	0.8797	ND	37,342	QN	4	2
Pentachlorobenzene	250	2	S	QN	QN	0.8797	QN	37,342	S	4	Q
1-Naphthylamine	143	Q	Q	Q	ND	0.8797	QN	37,342	2	4	Ð
Z-Naphthylamine	143	2	Q	2	QV	0.8797	ND	37,342	QV	4	2
2,3,4,6-1etrachlorophenol	232	2	Q	QN	QN	0.8797	ND	37,342	QN	4	9
Uiethyiphthalate	222	SD.	Q	ON	ON	0.8797	QN	37,342	Ð	4	Q.
4-Chlorophenylphenyl ether	205	2	ND	Q	QN	0.8797	ND	37,342	ON.	4	S
Fillorene	166	2	QQ	ND ND	ON	0.8797	QN	37,342	S	4	Ð
5-Nitro-o-toluidine	152	2	Q	ND	QN	0.8797	ND	37,342	Ð	4	Q
4-Nitroaniine	138	2	Q	Q	ON	0.8797	ON	37,342	9	4	Ð
4,6-Unitro-2-methylphenol	198	2	Q	NO.	QN	0.8797	QN	37,342	Q	4	Ð
Ulpnenyiamine/N-NitrosoUPA	169	2	2	Q	QN	0.8797	QN	37,342	QN	4	9
sym- I mitrobenzene	213	2	Q	QQ	NO NO	0.8797	QN	37,342	QN	4	Q
Distriction	270	2	Q	9	2	0.8797	QN	37,342	QN	4	Q
4 Promonhomilahamid other	1/9	2	Q.	Q	Q	0.8797	Q	37,342	QN	4	Q
Hosphiophenylphenyl enier	243	2	2	Q	2	0.8797	Q	37,342	Q	4	Q
A-Amioobinbook	282	2 2	Q	Q	9	0.8797	Q	37,342	Q	4	NO
Pronamide	601	2 2	2 5	2	2	0.8797	2	37,342	₽	4	Q
Pentachlorophenol	266	2 5	2 2	2 2	2 2	0.8797	ON C	37,342	2	4	2
Pentachloronitrobenzene	295	QV	2 2	2 2	2 2	0.0797	2 2	37,342	2 2	4	2
Phenanthrene	178	QV	2	2	2	0.8797	2 5	37.342	2 2	4	2 2
Anthracene	178	Q	Q	QN.	2	0.8797	GN	37.342	S		2 5
Carbazole	167	QN	QN	QN	Q	0.8797	Q	37.342	Q	4	2
Di-n-butylphthalate	278	0.091	1.048E-03	S	1.048E-03	0.8797	1.192E-03	37,342	2.778E-06	4	6.946E-07
4-Nitroquinoline-1-oxide	190	QN	QN	QN	QN	0.8797	Ð	37,342	Q	4	2
Methapyniene	261	QV	Q	QN	QN	0.8797	Q	37,342	Q	4	Q
Fluoranthene	202	Q	Q	QN	QN	0.8797	QN	37,342	S	4	Q
Benzidine	184	Q	Q	Q	QN	0.8797	QN	37,342	QN	4	Q
Pyrene p Dimothylamiaessabassas	202	Q.	2	Q	QN	0.8797	QN	37,342	QN	4	QV
Chlorobonalisto	222	2	2	Q	Q	0.8797	Q	37,342	Q	4	QN
Kanona	353	2 2	2	2	Q	0.8797	2	37,342	Ð	4	Q
Butylbenzylohthalata	313	NO O	ON THE	2	QN .	0.8797	Q	37,342		4	Q
3.3'-Dimethylbenzidine	212	C C	20 00	200	50-110-103	0.8/9/	1.149E-U3	37,342	2.679E-06	4	6.696E-07
2-Acetylaminofluorene	223	2 2	2 2	2 2	2 2	0.0797	25	37,342	2	4	2
		7	72	2	חא	U.6/3/	2	37,342	S S	4	ON

TABLE A-11. AEC - SVOC RUN NO. 1 DATA FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

· 有关的 人名英格兰人姓氏 人名英格兰人	**								4 7		
					Background				. (Corrected
	Molecular	Average Concentration -	Average Concentration -	Background - Concentration,	Concentration -	Dilution	Concentration -	Initial Plume	Sample Total Material - Run	Number of	Emission Factor - Run
Compound	Weight	Run 1, ppbv	Run 1, mg/m³	mg/m	Run 1, mg/m³	Factor (b), %	Run 1, mg/m³	Volume, ft3	1, lb	Items	1, lb/item
s(2.Ethvihexvi)nhthalate	391	QV	QV	2.139E-02	QN	0.8797	QN	37,342	QN	4	QN
3-Dichlorobenzidine	253	QN	QV	QV	QV	0.8797	QN	37,342	ND	4	Q
enz(a)anthracene	228	S	QV	QN	QN	0.8797	QN	37,342	QN	4	QN
hrysene	228	QN	QN	Q	QV	0.8797	ND	37,342	QN	4	QN
-n-octvlohthalate	391	Q	Q	QN	Q	0.8797	QN	37,342	ON	4	2
12-Dimethylbenz(a)anthracene	256	2	QN	QN	Q	0.8797	QN	37,342	ND	4	Q
enzo(b)fluoranthene (a)	252	Q	QN	QN	Q	0.8797	ND	37,342	QN	4	QN
enzo(k)fluoranthene (a)	252	QN	Q	Q	Q	0.8797	QN	37,342	QN	4	2
enz(a)byrene	252	QN	Q	QN	9	0.8797	ND	37,342	QN	4	Q
Methylcholanthrene	268	QN	Q	Q	9	0.8797	QN	37,342	ON	4	QN
deno(1.2.3-cd)pyrene	276	QV.	Q	QN	Q	0.8797	ON	37,342	QN	4	QN
ibenz(a.h)anthracene	278	QN	QN	QN	QN	0.8797	ND	37,342	QN	4	2
enzo(q,h,i)perylene	276	QN	QN	QN	ND	0.8797	ON	37,342	Q	4	QN

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers. b Estimated from tracer data as presented in Volume IV.

TABLE A-12. AEC - SVOC RUN NO. 2 DATA FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

Particulate/Vapor-phase SVOCs 74 ND P. Nitrosodiretty/amine 79 ND P. Virdine 93 ND 2-Picoline 93 ND Methyl methanesulfonate 124 ND Natirosodietylethylamine 88 ND Natirosodietylylamine 94 ND Phenol 124 ND Phenol 124 ND Phenol 93 ND Disclorobrane 202 ND 2-Chlorophenol 129 ND 2-Chlorophenol 147 ND 1.3-Dichlorobenzene 147 ND Benzy alcohol 168 ND 1.3-Dichlorobenzene 177 ND 1.2-Dichlorobenzene 177 ND 1.2-Dichlorobenzene 173 ND N-Mitrosopyrrolidine 120 ND N-Mitrosopyrrolidine 123 ND N-Nitrosopyrrolidine 122 ND N-Nitrosopyrrolidine 123 <th>222222222222222222222222222222222222222</th> <th></th> <th></th> <th>Factor (b), %</th> <th>Run 2, mg/m³</th> <th>Volume, ft³</th> <th>2, lb</th> <th>Number of</th> <th>2, lb/item</th>	222222222222222222222222222222222222222			Factor (b), %	Run 2, mg/m³	Volume, ft³	2, lb	Number of	2, lb/item
mine 74 mine 77 onate 79 g3 onate 102 hate 102 alte 124 g3 her 202 202 202 202 129 e 147 e 147 e 116 e 116 e 116 e 116 hathane 120 methane 139 methane 163	222222222222222222								
onate 93 onate 110 ylamine 88 nate 1024 124 94 93 94 93 94 95 124 95 96 177 171 171 171 172 172 173 173 173 173 173 173 173 173 173 173	9999999999999999		QN	0.9085	QN	35.643	Q	4	Q
93 ylamine 110 wlamine 124 her 124 her 124 her 124 her 147 e	999999999999999		Q	0.9085	QN	35,643	2	4	Q.
onate 110 ylamine 88 nate 102 nate 124 94 94 94 94 94 94 147 e 148 e 158	99999999999999	Q Q Q Q Q Q	Q	0.9085	Q	35,643	QV	4	QN.
ylamine 88 Incernate 102 Inate 124 93 Her 124 93 Her 202 129 120 6 H 147 6 H 147 6 H 147 108 H 108 H 108 H 108 H 108 H 100 H 1	999999999999	ON ON ON ON ON	Q.	0.9085	Q	35,643	QN	4	QN
e 124 94 94 94 94 94 94 94 94 94 94 94 94 94	999999999999	ON ON ON ON	QN	0.9085	QV	35,643	g	4	QN
her 124 94 93 143 her 202 202 129 e 147 e	99999999999	ON ON ON	QN	0.9085	ON	35,643	Q	4	Q
e 147 e 148 e 147 e 148 e 147 e 108 e 118	9999999999	QN QN QN	QN	0.9085	Q	35,643	Q	4	S
93 her 202 202 129 e 147 e 147 e 147 e 147 e 168 e 16	999999999	QN	QN	0.9085	QV	35,643	Q	4	S
e 143 e 1202 202 129 e 147 e 147 e 117 108 full 108 full 108 full 100 e 116 e 116 e 116 e 118 methane 173 methane 173 methane 163	9999999	QN	QN	0.9085	Q	35,643	Q	4	S
e 1729 e 147 e 147 e 168 e 147 e 108 e 108 e 177 formine 108 formi	999999		Q	0.9085	Q	35,643	Q	4	QN
e 129 e 147 e 147 e 168 e 108 e 108 e 108 e 107 ethylphenol 108 damine 100 e 110 e 120 e 120 e 122 e 122 e 128 e 128 e 128 e 163	99999	QN	QN	0.9085	QV	35,643	QN	4	Q
e 147 e 171 198 log 108 e 147 log 108 e 147 ethylphenol 108 log 130 lo	Q Q Q Q	DN	QN	0.9085	QN	35,643	Q	4	Q
e 147 e 108 108 108 108 (lamine 171 ethylphenol 108 (lamine 120 e 100 e 116 e 116 e 118 methane 122 123 138 139 methane 122 163 methane 128 163 methane 128 163 methane 163	Q Q Q	ND	QN	0.9085	QN	35,643	Q	4	QV
to the control of the	202	QN	QN	0.9085	QN	35,643	Q	4	QN
## 108 ## 147 ## 147 ## 147 ## 150	9 9	ON	QN	0.9085	QV	35,643	2	4	QN
ethylphenol 108 (4amine 130 (150 (150 (150 (150 (150 (150 (150 (15	2	QN	QN	0.9085	ON	35,643	Q	4	2
ethylphenol 171 ethylphenol 108 //amine 130 //amine 120 e 100 237 237 237 1138 114 114 114 112 122 138 139 methane 173 methane 173 methane 163	S.	Q	QN	0.9085	QN	35,643	QN	4	Q
ethylphenol 107 //amine 108 //amine 130 e 116 e 100 237 237 237 123 138 139 139 144 163 249 249	Q	Q	Q	0.9085	QN	35,643	QN	4	QN
ethylphenol 108 /damine 130 e 120 237 237 237 123 123 122 122 122	Q	Q	DN	0.9085	QN	35,643	QN	4	QN
Marnine 130 120 160 173 123 123 124 173 122 122 139 methane 173 163 163 163 163	2	9	QN	0.9085	QN	35,643	QN	4	ON.
120 116 100 237 237 237 114 114 114 115 122 122 122 122 122 122 163 163 163	Q	Q	QN	0.9085	일	35,643	QN	4	QN
nethane 173 methane 173 methane 173 methane 181	6.871E-04	1.897E-04	4.973E-04	0.9085	5.474E-04	35,643	1.218E-06	4	3.045E-07
237 123 123 114 114 114 118 138 139 139 163 200 100 100 100 100 100 100 100 100 100	2	2	Q	0.9085	Q	35,643	QV	4	ON
123 123 114 114 125 126 139 139 163 3ne 181 163 163 163	2 2	2	QN	0.9085	Q	35,643	2	4	2
methane 173 methane 173 methane 173 methane 163 methane 163 methane 163 methane 163 methane 163 methane 164 methan	2 2	2 2	2 2	0.9085	2	35,643	2	4	2
138 122 122 139 139 173 163 163 163 163 163 163	2 2	2 2	25	0.9085	2	35,643	2	4	2
methane 173 139 139 173 162 163 163 128 128 128 163	2 2	2 2	2 2	0.9085		35,043	2 2	•	2
methane 173 Total 122 Total 122 Total 128	2 2	2 5	2 5	0.000	2 2	55,043	2 2	*	3
methane 173 122 122 163 216 128 128 128 163 163 163	2 5	2 2	2 5	0.9065	2 2	35,043	2 2	1	2 2
122 163 163 181 128 163 163 249	2	S	2 2	0.9085	S	35 643	2 5		2 2
163 181 128 128 128 163 249	QN	Q	₽	0.9085	2	35.643	2	4	Q
181 128 128 163 249	ON	QN ON	Q	0.9085	Q	35,643	2	4	QN.
128 128 163 249	QN	QN	QN	0.9085	QN	35,643	2	4	QV
128 163 249 249	6.931E-04	QN	6.931E-04	0.9085	7.629E-04	35,643	1.698E-06	4	4.244E-07
163 249 261	2	Q	QN	0.9085	QN	35,643	ON	4	QN
249	9	2	Q	0.9085	QN	35,643	Q	4	QN
- 195	2	2	2	0.9085	QV	35,643	Q	4	QN
	2	2	9	0.9085	Q	35,643	Q	4	Q
149	QN	9	Q	0.9085	Q	35,643	Q	4	QN
921	QN	Q	QN	0.9085	Q	35,643	9	4	Q
	QN	Q	2	0.9085	2	35,643	2	4	Q
	2	Q.	2	0.9085	Q	35,643	2	4	2
142	ON S	Q	Q	0.9085	Q	35,643	2	4	Q
Hexachlorocyclopentations ND	2 2	2 5	2	0.9085	2	35,643	9	4	Q
107	2	2 2	2 9	0.9085	2	35,643	2	4	Q
761	ND	OZ	ON I	0.9085	Q	35,643	Q	4	2

TABLE A-12. AEC - SVOC RUN NO. 2 DATA FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

	Molecular	Average Concentration -	Average Concentration -	Background - Concentration,	Background Corrected Concentration -	Dilution Correction	Corrected Concentration -	Initial Plume	Sample Total Material - Run	Number of	Corrected Emission Factor - Run
Compound	Weight	Run 2, ppbv	Run 2, mg/m³	mg/m³	Run 2, mg/m²	Factor (b), %	Run 2, mg/m²	Volume, ft	2, lb	Items	2, Ib/item
2,4,5-Trichlorophenol	197	QN	QN	QN	QN	0.9085	QN	35,643	2	4	2
Isosafrole	162	QN	Q	Q	2	0.9085	2	35,643	2	4	2
2-Chloronaphthalene	163	QN	QN	Q	2	0.9085	2	35,643	2	4	2
2-Nitroaniline	138	Q	Q.	2	Q.	0.9085		35,643	2 9	4	2 2
1,4-Naphthoquinone	158	ON.	QN		2 5	0.9085		35,643	2 5	4	22
Dimethylphthalate	194	S	2	2 2	2 2	0.9085	2 2	35,043	2 2	4	2 2
1,3-Dinitrobenzene	168	2 2	Q C	2	2	0.9085	2 2	35,043	2	1	2 5
2,6-Dinitrotoluene	182	2 2	2 2	2 2	2	0.9085	ON N	35,643	2 2	•	2 2
Acenaphthylene	152	2 2	ON ON	O N	22	0.9065	2 2	35,643	2 2	7 4	2 2
3-Nitroaniine	130	2 2	Q Q	5 5	2 2	0.9085	2 5	35,643	2 5	4	2
4-ratiophenoi	184	S	GN	QN CN	9	0.9085	QN	35,643	Q.	4	Q
Acepanhthene	154	QN	QN	QN	2	0.9085	S	35,643	QV	4	Q
2.4-Dinitrololuene	182	QV.	QN	Q	Q	0.9085	QN	35,643	QN	4	QN
Dibenzofuran	168	ON	QN	QN	Q	0.9085	QN	35,643	Q	4	QV
Pentachlorobenzene	250	QV	QV	QN	QV	0.9085	QN	35,643	QN	4	QN
1-Naphthylamine	143	QN	QN	QN	ON	0.9085	QN	35,643	Q	4	Q
2-Naphthylamine	143	QN	QN	ON	ON	0.9085	QN	35,643	QV	4	Q
2,3,4,6-Tetrachlorophenol	232	QN	QN	Q	QV	0.9085	QN	35,643	QN	4	ND
Diethylphthalate	222	QN	QN	QN	QN	0.9085	Q	35,643	Q	4	Q
4-Chlorophenylphenyl ether	205	QN	ND	ND	Q	0.9085	QV	35,643	Q	4	Q
Fluorene	166	Q	QV	Q	Q	0.9085	Q	35,643	Q	4	2
5-Nitro-o-toluidine	152	Q	Q	Q	Q	0.9085	9	35,643	2	4	2
4-Nitroaniline	138	9	9	9	Q	0.9085	9	35,643	QN	4	2
4,6-Dinitro-2-methylphenol	198	2	QV.	2	2	0.9085	2	35,643		4	2
Diphenylamine/N-NitrosoDPA	169	2	Q :	Q .	2	0.9085	2 5	35,643		4	2
sym-Trinitrobenzene	213	2	QN :	QU.	QV.	0.9085	2	35,643	Q S	4	2
Diallate	270	2	Q.	QV.	Q.	0.9085	2	35,643	2 2	4	2 2
Phenacetin	6/1	2 2	2	2 2	2 2	0.9085		35,043	S S	4	
4-Bromophenylether	249	2	2 2	2 2	22	0.9085	2 2	35,643	2 2	*	2 2
Hexachiorobenzene	782	2 2	02	2 2	2 2	0.9093	2 2	25.643		,	2 2
4-Aminobipnenyi	109	2 2	2 2	2 2	2 2	0.9085	2 5	35 643	2 5	4	2 2
Pontachlorophopol	266	S	S	2 2	S S	0.9085	GN	35.643	GN	4	S
Pentachloronitrobenzene	295	2	2	2	QN	0.9085	Q	35,643	QN	4	Q
Phenanthrene	178	ON	QV	Q	Q.	0.9085	QN	35,643	ON	4	QN
Anthracene	178	ON	ND	QV	ON	0.9085	QN	35,643	ON	4	QN
Carbazole	167	QN	ON	QN	QN	0.9085	QV	35,643	QV	4	Q
Di-n-butylphthalate	278	0.467	5.395E-03	Q	5.395E-03	0.9085	5.939E-03	35,643	1.321E-05	4	3.304E-06
4-Nitroquinoline-1-oxide	190	QN	Q	Q	QN	0.9085	Q	35,643	2	4	Q
Methapyrilene	261	Q	Q	Q	Q	0.9085	Q	35,643	9	4	Q
Fluoranthene	202	Q	Q	Q	QN	0.9085	Q	35,643	Q	4	S
Benzidine	184	Q	QN	Q	QN	0.9085	9	35,643	Q	4	2
Pyrene	202	Q	2	2	Q	0.9085	2	35,643	2	4	2
p-Dimethylaminoazobenzene	225	Q.	QN:	Q.	Q.	0.9085	2	35,643	ON.	4	2
Chlorobenzilate	325	Q .	Q S		QN	0.9085	2	35,643	2	4	2 5
Kepone	491	NO.	ON S		ON J.	0.9085	NO SOLOE OS	35,043	ON DOLLAR	4	ND HATE
Butyibenzyiphithalate	312	541.0	1.861E-03	2	1.861E-03	0.9085	Z.049E-03	35,043	4.339E-U0	4	1.140E-00
3,3'-Dimethytbenzidine	212	ON.	ON	S	ON	0.9085	NO	33,040	3	*	ON

TABLE A-12. AEC - SVOC RUN NO. 2 DATA FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

Corrected Emission Factor - Run 2. lb/item	9	N O	QN QN	S	CZ	S			2 5	9	2 2	2	2	2 2
X85-11-5-26-0-99-11-									 -					
Number of tems	4	4	4	4	4	4	_			4	- -		4	4
Sample Total Material - Run 2, lb	QN	QN	Ð	Ð	8	CN	S	S S	S	S	2 5	2 2	2 2	2 2
Initial Plume Volume, ft	35,643	35,643	35,643	35,643	35,643	35.643	35 643	35,643	35.643	35.643	35 643	95 649	33,043	35.643
Corrected Concentration - Run 2, mg/m³	QN	QN	QN	Q	Q	Q	S	S	2	QN	CN	2	2 2	QN
Dilution Correction Factor (b), %	0.9085	0.9085	0.9085	0.9085	0.9085	0.9085	0.9085	0,9085	0.9085	0.9085	0.9085	0 9085	0.0085	0.9085
Background Corrected Concentration -	QN	-2.027E-02	Q	QN	QN	QN	QV	Q	Q	Q	Q	CN	S	Q
Background - Concentration, mg/m²	QN	2.139E-02	QN	QN	ON	ON	Q	2	2	Q	₽	£	S	QN
Average Concentration - Run 2, mg/m³	Q	1.115E-03	2	Q	QN ON	Q	QN	Q	ND	QN	Q	Q	2	ON
Average Concentration - Run 2, ppbv	Q	0.069	2	2	Q	2	Q	QN	ON	QN	QN	QN	Q	QN
Molecular Weight	223	391	522	877	228	391	256	252	252	252	268	276	278	276
Compound	-Acetylaminofluorene	osk-curymexy/primare	o, a - Did iloroperizidirie	Deriz(a)animacene	unysene	Ji-n-octylpntnalate	,12-Uimethylbenz(a)anthracene	Benzo(b)fluoranthene (a)	Benzo(k)fluoranthene (a)	Benz(a)pyrene	3-Methylcholanthrene	ndeno(1,2,3-cd)pyrene	ibenz(a,h)anthracene	Benzo(g,h,i)perylene

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers. b Estimated from tracer data as presented in Volume IV.

TABLE A-13. AEC - SVOC COMPOSITE RUN NO. 1-2 DATA FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

	Molecular	Average Concentration -	Average Concentration -	Background - Concentration,	Background Corrected Concentration	Dilution	Corrected Concentration -	Initial Plume	Sample Total Material - Run 1-2 ih	Number of	Corrected Emission Factor - Run 1 2. Ib/item
Compound	Weight	Run 1-2, ppbv	Run 1-2, mg/m	III BIII	nui -2-1 iin	, 4(a) (a)	6				
Particulate/Vapor-phase SVOCs							4:	00,00	2	\	Ş
N-Nitrosodimethylamine	74	QN	Q	QN	Q.	0.8941	2	30,492	2 2	1	Ş
Pyridine	79	QN	Q	Q	2	0.8941	2 2	36,492	2 2	4	2
2-Picoline	93	Q	2	2	2 2	0.0341	2 2	36.492	Q	4	Q.
Methyl methanesulfonate	110	9	2		2 2	0.034	2 2	36.492	2	4	Q
N-Nitrosomethylethylamine	88	Q.	ON S	2 2	2	0.0341	S	36.492	S	4	QN
N-Nitrosodiethylamine	102	Q .	2 2	2 2	2 2	0.0341	S	36.492	QN	4	QN
Ethyl methanesulfonate	124	2	2 2	2 2	2 5	0.8941	2	36.492	QN	4	QN
Phenol	94		2 2	2 2	2 5	0.8941	2	36,492	QN	4	QN
Aniline	93	22	2 2	2 2	S	0.8941	Q	36,492	QN	4	ND
bis(2-Chloroethyl)ether	143	2 2	2 2	G	2	0.8941	ON	36,492	QN	4	2
Pentachloroethane	7007	2 5	S	Q	2	0.8941	QN	36,492	ON	4	9
2-Chlorophenol	147	2 5	QN CN	S	Q	0.8941	2	36,492	QN	4	9
1,3-Dichlorobenzene	147	2 2	S	2	2	0.8941	QN	36,492	QN	4	9
1,4-Dichloropenzene	à de	2 2	CN	CZ	Q	0.8941	QN	36,492	QN	4	Q
Benzyl alconol	90	2 2	CN	Q	Q	0.8941	QN	36,492	ON	4	2
2-Metnylphenol	147	2 2	CN	2	Ð	0.8941	QN	36,492	Q	4	2
1,2-Uichiorobenzene	121	S S	CN	S	QN	0.8941	QV	36,492	Q	4	Q
DIS(2-Critionoisopropy) eti iei	204	CN	CN	2	Q	0.8941	QN	36,492	QN	4	Q
O-10luidine	905	CN	Q	S	QN	0.8941	QN	36,492	Q	4	2
N-Nitroso-di-n-proovlamine	130	2	Q	QV	QN	0.8941	QV	36,492	QN	4	ON CO
Acetophenone	120	0.128	6.387E-04	1.897E-04	4.490E-04	0.8941	5.021E-04	36,492	1.144E-06	4	2.860E-07
N-Nitrosomorpholipe	116	Q	Q	QN	QN	0.8941	2	36,492	2	4	2 2
N-Nitrosopyrrolidine	100	QN	ON	Q	Q	0.8941	ON!	36,492	2 2	,	Q. C.
Hexachloroethane	237	QV	QN	QN	Q	0.8941	2	36,492	2 2	,	2 2
Nitrobenzene	123	Q	ON	Q	Q	0.8941	QN.	36,492	2 2		2 2
N-Nitrosopiperidine	114	QN	QN	2	QV	0.8941	Q.	36,492	2 2	•	2 2
Isophorone	138	QN	ON	Q	2	0.8941	2 2	36,492	2 2		S
2,4-Dimethylphenol	122	Q	2	2	2	0.8941	2	36,492	2 5	1	S
2-Nitrophenol	139	Q	2	ON.	2 2	0.034	2 2	36.492	CZ	4	2
bis(2-Chloroethoxy)methane	173	2	2 2	2 2	2 2	0.034	2 5	36.492	2	4	Q
Benzoic acid	122	2 2	2 2	2 2	2 5	0.8941	Q	36,492	QV	4	QV
2,4-Dichlorophenol	202	2 2	2 2		2 2	0.8941	Q.	36,492	Q	4	Q
1,2,4- I nchloropenzene	100	1212	7 129F-04	Q	7.129E-04	0.8941	7.973E-04	36,492	1.816E-06	4	4.541E-07
Naphmalene	128	Q	QN	Q	QN	0.8941	QN	36,492	QN	4	9
2 6-Dichlorohanol	163	QN	QN	QV	Q	0.8941	ON	36,492	2	4	2
Hexachlomorphene	249	Q	QN	QN	DN	0.8941	QN	36,492	2	4	Q S
Hexachlorobi dadiene	261	QV	QV	QN	QN	0.8941	Q	36,492	Q .	4	2
Dimethylohenethylamine	149	S	QV	ON	QN	0.8941	Q	36,492	2	4	2 2
N-Nitroso-di-n-butylamine	158	QV	QN	QN	Q	0.8941	2	36,492	2	4	2 2
4-Chloro-3-methylphenol	143	QN	QN	Q	Q	0.8941	2	36,492	2 2	*	2 2
Safrole	162	QN	Q	Q	Q	0.8941		30,492	ON 200		1 6125-07
2-Methylnaphthalene	142	0.043	2.530E-04	Q	2.530E-04	0.8941	2.830E-04	30,492	NO 1	-	CN CN
1,2,4,5-Tetrachlorobenzene	216	9	2	2	2	0.8941	2 2	36,432	2 2	4	2
Hexachlorocyclopentadiene	273	2	2	2	2 5	0.094	2 2	36.492	CN	4	Q
2,4,6-Trichlorophenol	197	Q	2	Q	2	0.6941	2	100,000			

TABLE A-13. AEC - SVOC COMPOSITE RUN NO. 1-2 DATA FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

	Molecular	Average	Average	Background -	Background Corrected	Dilution	Corrected		Sample Total		Corrected
Compound	Weight	Run 1-2, ppbv	Run 1-2, mg/m³	_m/gm	Run 1-2, mg/m ³	Factor (b), %	Run 1-2, ma/m³	Volume, ft	Material - Run 1-2. lb	Number of Items	Factor - Run 1
2,4,5-Trichlorophenol	197	QN	QN	QN	QN	0.8941	QN	36.492	CN	4	CN
Isosafrole	162	QN	QN	QN	Q	0.8941	ΟŇ	36,492	Q	4	2
Z-Cnloronaphthalene	163	Q .	9	2	Q	0.8941	QN	36,492	QN	4	QV
1.4-Naphthograpone	158	2 2	2 2	2 2	Q S	0.8941	Q	36,492	Q	4	QN
Dimethylphthalate	194	2 2	2 2	2 2	2 2	0.8941	2	36,492	2	4	2
1,3-Dinitrobenzene	168	2	Q	2 5	2 2	0.0341	2	36,492	2 2	4	2
2,6-Dinitrotoluene	182	Q	S	2	2	0.8941	2/2	36,492	2 2	4 4	2 2
Acenaphthylene	152	QN	Q	Q	2	0.8941	200	36.492	2 2	4	2 2
3-Nitroaniline	138	QN	ND	QV	Q	0.8941	Q.	36.492	QV	4	2 2
4-Nitrophenol	139	QN	QN	QN	QN	0.8941	QN	36,492	S	4	2
2,4-Dinitrophenol	184	2	Q	Q	QN	0.8941	QN	36,492	Q	4	Q
Acenaphimene 2.4 Distractions	154	9	Q	Q	QV	0.8941	ND	36,492	QN	4	Q
Cibonacturan	182	2	2	Q	Q	0.8941	QN	36,492	QN	4	QN
Pantachlorobanzana	260	2 2	2	Q	Q	0.8941	Q	36,492	QN	4	Q
1-Naphthylamine	743	2 2	2 2	2 5	Q S	0.8941	Q	36,492	O	4	QN
2-Naphthylamine	143	2 5	2 2	2 2	2 2	0.8941	Q.	36,492	2	4	Q
2.3.4.6-Tetrachlorophenol	232	2 2	22	S S	2 5	0.8941	2	36,492	9	4	Q
Diethylphthalate	222	2200	2 007E-04	2 2	ND 2000 c	0.8941	NO NO	36,492	ON LO	4	Q
4-Chlorophenyiphenyi ether	205	2	QN	G Z	TO CN	0.0341	2.244E-04	30,492	5.113E-0/	4	1.278E-07
Fluorene	166	Q	9	202	2 2	0.8941	2 5	36,492	2 2	4	2 2
5-Nitro-o-toluidine	152	QN	Q	QN	Ð	0.8941	GN	36.492	2		2 5
4-Nitroaniline	138	QN	QN	QV	Q.	0.8941	S	36,492	2	4	2
4,6-Dinitro-2-methylphenol	198	Q	QN	QN	QN	0.8941	QN	36,492	2	4	2
Diphenylamine/N-NitrosoUPA	169	2	Q	ON	QN	0.8941	QN	36,492	Q	4	Q
Sym- i nnitropenzene Diallate	213	2	2	₽	ON	0.8941	QN	36,492	QN	4	Q
Phenacetin	270	2 2	2	Q	2	0.8941	QN	36,492	QN	4	QV
4-Bromonhenvinhenvi ether	240	2 2	Q Q	2	2	0.8941	2	36,492	Q	4	Q
Hexachlorobenzene	285	2 2	2 2	2 2	2	0.8941	2	36,492	Q	4	ND
4-Aminobiphenyl	169	2 2	2 2	2 2	2 2	0.8941	2 2	36,492	2	4	2
Pronamide	228	Ð	S	S	2	0.0341	2 2	36,492	2 2	4	2
Pentachlorophenol	266	QV	Q	QV	2	0.8941	S	36.492	2 5		2 2
Pentachloronitrobenzene	295	QN	QN	QN	QN	0.8941	Q	36,492	2	4	202
Prienantirene	178	9	Q	Q	QN	0.8941	QN	36,492	Ð	4	S
Corporale	8/1	2	2	Q	Q	0.8941	Q	36,492	QN	4	Q
Di-n-hithlighthalate	926	0.453	ON J	2	QN	0.8941	9	36,492	Q	4	
4-Nitroguinoline-1-oxide	2/2	0.432	3.233E-U3	2	5.233E-03	0.8941	5.853E-03	36,492	1.333E-05	4	3.334E-06
Methapyrilene	261	S	25	2 2	2 5	0.8941	2	36,492	2	4	2
Fluoranthene	202	2	2	2 5	2 2	0.0941	2 5	35,492	2 5	4	Q
Benzidine	184	Q	22	2 2	2 2	0.0941	2 2	36,492		4	2
Pyrene	202	Q	2	Q	S	0.8941	S	36,492	2 2	,	2 2
p-Dimethylaminoazobenzene	225	QN	ON	Q	Ð	0.8941	2	36.492	QN	4	2 2
Chlorobenzilate	325	Q	QN	QN	QN	0.8941	QV	36,492	Q	4	2
Kepone Bittiffcontinents	491	2	Q	QN	ON	0.8941	QN	36,492	Q	4	2
Duyibenzyipintalate	312	0.123	1.595E-03	2	1.595E-03	0.8941	1.784E-03	36,492	4.063E-06	4	1.016E-06
2,3-Uinetrylbenzidine 2-Acetylaminofluorene	212	2 2	2	Q	Q.	0.8941	QV	36,492	QN	4	Q
	250	Z.	N	⊒ P	QN.	0.8941	QN	36,492	2	4	2

TABLE A-13. AEC - SVOC COMPOSITE RUN NO. 1-2 DATA FOR SIMULATOR HAND GRENADE TEST (30 MARCH 1998)

	ngiv.			Background	Background	Ş	Corrected		Semple Total		Corrected
	Molecular	Average Concentration -	Concentration -	Concentration,	Concentration -	Correction	Concentration -	Initial Plume	Material - Run	ö	ŭ.
Compound	Weight	Run 1-2, ppbv	Run 1-2, mg/m ³	mg/m³	Run 1-2, mg/m ³	Factor (b), %	Run 1-2, mg/m*	Volume, ft*	1-2, ID	Items	z, ibyitem
Construction of the state of th	301	6000	7.912E-04	2,139E-02	-2.060E-02	0.8941	NO	36,492	Q	4	2
DIS(<-Emylnexy)priniare	253	CN	QN	Q	Q	0.8941	ON	36,492	Q	4	Q
5,5 -Dicinoloperizionie	866	CN	QN	QN	S	0.8941	ND	36,492	Q	4	2
Deriz(a)anunacene	900	CN	S	CN	9	0.8941	QN	36,492	QV O	4	Q
Curysene	204	S S	S	Q	QN	0.8941	QN	36,492	QV	4	QV
Di-n-octylpritralate	500			CN	CN	0.8941	QN	36,492	QN	4	2
7,12-Dimethylbenz(a)anthracene	902				2	0.8941	S	36.492	2	4	QN
Benzo(b)fluoranthene (a)	252	Q	ON.			1000		36.402	S	4	S
Benzo(k)fluoranthene (a)	252	ON	Q	ON.	Q.	0.8941		30,432	١		Ş
Benz(a)pyrene	252	Q.	QN	ND	QN	0.8941	ON I	30,432	2 5	,	
3-Methylcholanthrene	268	QN	QN	Q	QN	0.8941	Q	36,492	Q.	4	
Indeno(1.9.3-cd)nyrene	276	QV.	QN	Q	QN	0.8941	QN	36,492	QN	4	2
Dibog(a, b)authracene	278	2	2	Q	QN	0.8941	QN	36,492	QN	4	2
Diodiz(a,i) an integral	276	QN	Q	Q	ON	0.8941	Q	36,492	ND	4	ON

Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers. b Estimated from tracer data as presented in Volume IV.

SIMULATOR GROUND BURST

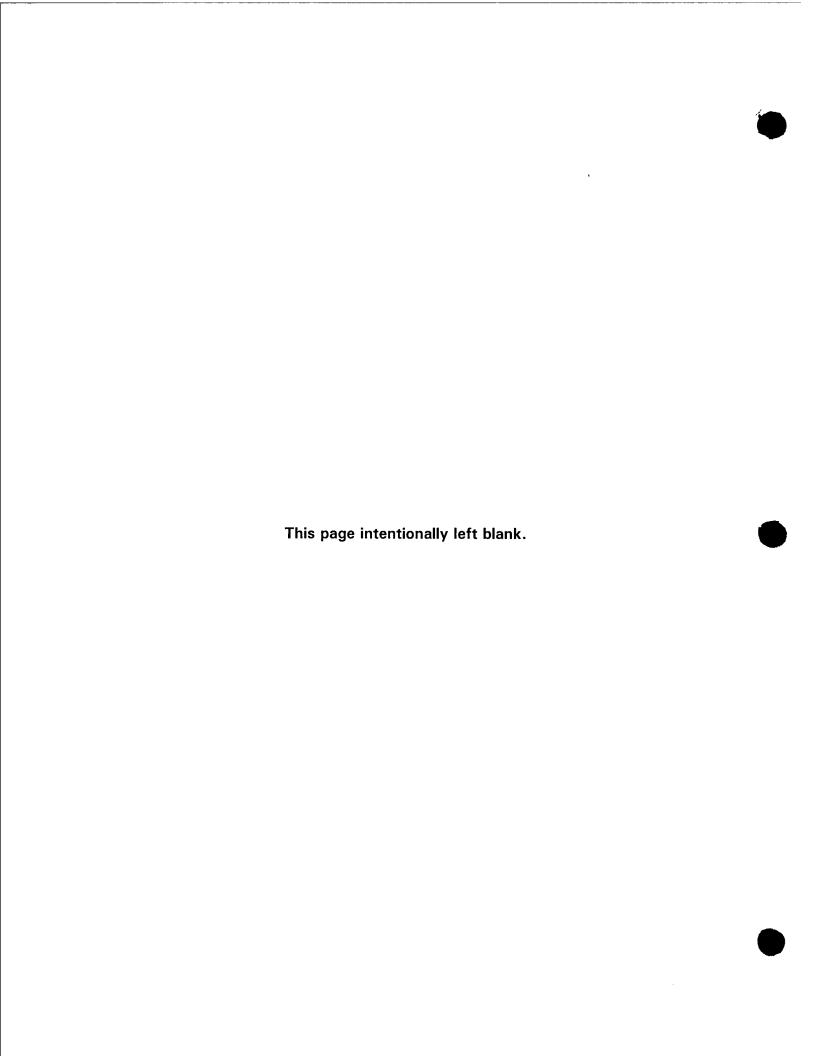


TABLE A-1. AEC MUNITION ITEM INPUT DATA SHEET (30 MARCH 1998)

Munition Item: Simulator Ground Burst Created by: Radian International LLC

No. of Runs =

2

Sample Volumes:	Run	No. 1	Run	No. 2	Compos	ite Run	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(ft³)
TSP	300.3	363.1	130.0	164.1	NA	NA	239.35
PM ₁₀	128.9	116.7	61.3	55.1	NA	NA	90.51
Metals	300.3	363.1	130.0	164.1	NA	NA	239.35
VOCs	NA						
SVOCs	46.1	39.5	27.0	24.3	NA	63.9	34.22
HCI/CI₂	29.7	22.6	29.2	22.1	NA	NA	25.91
Energetics	NA						
Dioxin/Furan	56.2	55.9	36.1	32.2	NA	88.1	45.09
Residue	NA						
CEM	NA						

Sample Volumes:	Run	No. 1	Run	No. 2	Compo	site Run 🦠 🎉	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(mL)
HCI/Cl ₂ (H ₂ SO ₄)	39.5	38.5	37.0	45.0	NA	NA	40.00
HCI/CI₂ (NaOH)	37.0	40.0	41.0	40.0	NA	NA	39.50

Sample Weight Gain:	Run	No. 1	Run N	lo. 2 🦠 📑	Compos	ite Run	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(9)
TSP	0.9579	0.9814	0.8747	0.8766	NA	NA	0.9227
PM ₁₀	0.4100	0.4609	0.3817	0.3837	NA	NA	0.4091

Dilution Correction Factors:	Run No. 1	Run No. 2	Composite Run	Average
TSP	0.9396	0.7537	NA	0.8467
PM ₁₀	0.9752	0.8899	NA	0.9326
Metals	0.9396	0.7537	NA	0.8467
VOCs	0.9278	0.9323	NA	0.9301
SVOCs	0.9112	0.5847	0.7480	0.7480
HCI/CI₂	0.9112	0.5847	NA	0.7480
Energetics	NA	NA	NA	NA
Dioxin/Furan	0.9112	0.5847	0.7480	0.7480
Residue	NA	NA	NA	NA
CEM	0.8327	0.2722	NA	0.5525

Olivers of the second of the s	Run No. 1	Run No. 2	Composite Run	Average
Initial Plume Volume (m³)	1008.68	976.11	992.40	992.40
Net Explosive Weight (g)	127.01	190.51	158.76	158.76

TABLE A-2. AEC BACKGROUND INPUT DATA SHEET (30 MARCH 1998)

Munition Item: Simulator Ground Burst Created by: Radian International LLC

No. of Runs =

2

Sample Volumes:	HG - Bac	kground	Reager	nt Blank	Field	Blank	Average
4 4	Train A	Train B	Train A	Train B	Train A	Train B	(ft³)
TSP	1404.0	NA	NA	NA	NA	NA	1403.98
PM ₁₀	1044.2	NA	NA	NA	NA	NA	1044.23
Metals	1404.0	NA	NA	NA	NA	NA	1403.98
VOCs	NA	NA	NA	NA	NA	NA	NA
SVOCs	108.3	NA	NA	NA	NA	NA	108.32
HCl/Cl₂	29.8	NA	NA	NA	NA	NA	29.83
Energetics	NA	NA	NA	NA	NA	NA	NA
Dioxin/Furan	152.0	NA	NA	NA	NA	NA	152.03
Residue	NA	NA	NA	NA	NA	NA	NA
CEM	NA	NA	NA	NA	NA	NA	NA

Sample Volumes:	HG - Bac	kground	Reager	nt Blank	Field	Blank	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(mL)
HCI/CI₂ (H₂SO₄)	43.0	NA	107.2	NA	45.3	NA	75.10
HCl/Cl₂ (NaOH)	37.0	NA	92.0	NA	41.5	NA	64.50
HCl/Cl₂ (H₂O)	NA	NA	100.0	NA	NA	NA	100.00

Sample Weight Gain:	HG - Bac	kground	Reagen	t Blank	Field	Blank	Average
4	Train A	Train B	Train A	Train B	Train A	Train B	(g)
TSP	-0.0025	NA	-0.0026	NA	-0.0037	NA	-0.0026
PM ₁₀	-0.0238	NA	-0.0002	NA	-0.0029	NA	-0.0120

TABLE A-3. AEC - TSP, PM₁₀, HCUCI₂, DIOXIN/FURAN, CO, CO₂, NO_X, SO₂, AND METALS DATA EVALUATION FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

Average (Companie) Average												
Concepting Con						Average	Average Maximum	Average Minimum		Minimum		Minimum
Comparing		Average	Average	Average	Average	Background -	Detection Limit -	Detection Limit -	Background	Detection Limit	Background	Detection Limit
### Charles (HCD/Chharles CEA) ### Concerns 1.10st Concerns	Companied	Concentration -	Concentration -	Concentration -	Concentration -	Concentration,	Concentration,	Concentration,	Evaluation	Evaluation	Evaluation	Evaluation
1.000 1.00		The state of the s	A I I I I I I I I I I I I I I I I I I I						2 E	- C 110 18	NOVE	- 14010A
1,000 1,00	Particulate											
1296-42 11086-42 11086-42 ND 11816-42 ND ND 11816-42 ND ND 11816-42 ND ND 11816-42 ND ND ND ND ND ND ND N	TSP	1.041E+02	9.407E+01	S	9.907E+01	-6.288E-02	QN	Ð	1575.42	10.00	A	A
Stroke S	PM ₁₀	1.259E+02	1.103E+02	QV	1.181E+02	-8.049E-01	QN	QN	146.74	10.00	٨	A
6.535E-02 8.015E-02 ND 6.344E-02 8.075E-03 1.507E-03	Hydrogan Chlorida (HCIVChlorina (CI)											
Edition Continue	HCI	6.633E-02	8.015E-02	Q	7.324F-02	S	6.814E-02	5 608F-02	00 01	1.31	· ·	2
EC (a) 12.17E-09 1.757E-09 ND 1.487E-09 ND ND ND ND 1.000	Cl ₂	6.706E-02	5.982E-02	2	6.344E-02	3.877E-03	1.690E-03	1.527E-03	16.36	41.55	: 4	¥
1217E-09 1.27E-09 1.27E-09 ND 1.48TE-09 ND ND ND ND 1.000												
EC (a) 12.17E-09 1.737E-09 ND 1.437E-09 ND 1.447E-09 ND ND ND ND ND ND ND N	Dioxin/Furan											
Quasi Emissions Moniterinal CEM) Septem ND 2.090E-400 2.697E-01 ND T74 10,000 Doxide (NO2) Castle Cecon 1.50FE-00 ND 2.090E-400 2.697E-01 ND ND 10,000 Dixide (NO2) 6.78E-402 6.78E-402 ND 1.78E-61 ND 1.774 10,000 Assistance (NO2) 6.78E-402 ND -1.78E-61 ND 1.70FE-01 ND 1.50F Assistance (NO2) 1.70FE-01 ND -1.78E-62 ND -1.78FE-02 ND ND -1.78FE-02 ND -1.70FE-02 ND -1.7	Dioxin TEQ (a)	1.217E-09	1.757E-09	ON	1.487E-09	QV	ND	QN	10.00	10.00	Ą	A
Oxide (NOA) 4.502E-00 2.408E-40 ND 2.090E+00 2.687E-01 ND ND 7.74 10.00 Oxide (NOA) 4.502E-00 2.448E-40 ND 4.502E-01 ND 4.502E-01 1.00 1.25.13 10.00 Dioxide (CO ₂) 6.768E-02 6.538E-02 ND -1.838E-02 2.74E-02 ND ND 1.00 ND												
Manage Colore 1,667E+00	Continuous Emissions Monitoring (CEM) Sys	stem										
Compact Comp	Carbon Monoxide (CO)	1.662E+00	2.498E+00	ON	2.080E+00	2.687E-01	QN	ON	7.74	10.00	8	٨
1,105E-01 1,105E-01 ND 1,184E-01 ND 1,184E-02 ND ND 1,105E-03 ND ND 1,100E-03 ND ND 1,100E-03 ND ND ND ND ND ND ND N	Nitrogen Oxide (NOx)	4.502E+00	5.444E+00	Q	4.973E+00	3.974E-02	ON	QN	125.13	10.00	A	A
1,105E-01 1,105E-01 1,105E-01 ND 1,134E-01 NA Dioxide (CO ₂) 1,105E-01 1,105E-01 ND 1,134E-01 NA Dioxide (SO ₂) ND 1,134E-01 NA Dioxide (SO ₂) ND 1,134E-01 NA Dioxide (SO ₂) ND ND 1,134E-01 NA Dioxide (SO ₂) NA Dio	HCI	-2.008E+00	-1.667E+00	Q	-1.838E+00	-2.129E-01	ON	QN	8.63	10.00	В	Α
1,105E-01 1,205E-01 ND 1,184E-02 ND NA (b) 2,348E-03 NA (b) 2,374.77 1,105E-04 ND 1,786E-04 NA (b) 3,485E-03 2,927E-03 NA (b) 1,185.09 1,105E-04 ND 2,558E-04 NA (b) 3,485E-03 2,927E-03 NA (b) 1,025.09 1,105E-04 ND 2,310E-04 NA (b) 3,485E-03 2,927E-03 NA (b) 1,025.09 1,105E-04 ND 2,310E-04 NA (b) 3,485E-03 1,785E-04 NA (b) 1,025.09 1,105E-04 1,107E-04	Carbon Dioxide (CO ₂)	6.768E+02	6.838E+02	QN	6.803E+02	6.726E+02	Q	Ð	1.01	10.00	a	∢
stite-phase Metals 9.118E-00 2.586E+01 ND 1.749E+01 NA (b) 3.485E-03 2.927E-03 NA (b) 5.927E-03 NA (b) 6.101 V 2.316E-04 2.586E+01 ND 2.310E-04 NA (b) 3.430E-04 NA (b) 6.01 V 2.316E-04 ND 2.310E-04 NA (b) 3.430E-04 NA (b) 6.01 N 2.316E-04 ND 2.310E-04 NA (b) 3.430E-04 NA (b) 6.01 N 2.316E-04 ND 2.316E-05 NA (b) 2.340E-05 1.086 N 2.451E-04 ND 2.454E-05 NA (b) 2.124E-05 1.783E-04 NA (b) 2.33 N 3.273E-04 ND 3.575E-04 NA (b) 2.124E-05 1.783E-05 NA (b) 1.636E-05 N 3.273E-04 ND 3.47E-05 NA (b) 2.34E-05 NA (b) 1.636E-05 NA (b) 1.636E-05 NA (b) 1.636E-05 NA (b) 1.636E-05 NA (b) 1.63	Sulfur Dioxide (SO ₂)	1.105E-01	1.262E-01	QN	1.184E-01	-2.744E-02	2	Ð	4.31	10.00	ပ	∢
1.249E-02 3.680E-01 ND 1.749E-01 NA (b) 3.448E-03 2.927E-03 NA (b) 61.01 1.249E-02 3.607E-02 ND 2.588E-02 NA (b) 4.996E-04 4.193E-04 NA (b) 61.01 1.249E-02 3.607E-02 ND 2.518E-04 NA (b) 3.485E-04 4.193E-04 NA (b) 61.01 2.245E-03 5.683E-05 ND 2.246E-05 NA (b) 3.482E-05 3.198E-05 NA (b) 6.300 3.273E-04 5.773E-04 7.573E-04 ND 3.475E-04 NA (b) 7.487E-05 6.289E-05 NA (b) 1.058 3.273E-04 7.573E-04 7.573E-04 ND 3.475E-04 NA (b) 7.487E-05 6.289E-05 NA (b) 1.058 3.273E-04 7.573E-04 7.573E-04 ND 3.475E-04 NA (b) 1.388E-05 NA (b) 1.588E-04 NA (b) 1.588E-05 NA (b) NA (b) 1.588E-04 NA (b) 1.588												
m 9.186E-00 2.566E-01 ND 1.748E-01 NA (b) 3.485E-03 2.937E-03 NA (b) 6.139E-04 NA (b) 6.101 0.80 1 2.316E-04 ND 2.316E-04 NA (b) 2.124E-05 3.199E-05 NA (b) 1.835E-04 NA (b) 1.835E-05 NA (b) 1.835E-05 NA (b) 1.739E-05 NA (b) 1.739E-05 NA (b) 1.739E-05 NA (b) 1.749E-05 NA (b) 1.749E-05 <td>Particulate-phase Metals</td> <td></td>	Particulate-phase Metals											
V 1,249E-02 3,867E-02 ND 2,536E-02 NA (b) 4,996E-04 4,193E-04 NA (b) 61,011 1,249E-04 2,310E-04 NA 1,499E-04 2,310E-04 NA (b) 3,43E-06 2,369E-05 NA (b) 1,735E-04 NA (b) 2,310E-04 1,708E-05 NA (b) 2,39E-05 NA (b) 2,39E-05 NA (b) 2,39E-05 NA (b) 2,39E-05 NA (b) 2,37E-05 NA (b) 1,73E-05 NA (b) 1,74E-05 6,289E-05 NA (b) 1,74E-05 6,289E-05 NA (b) 1,74F-05 1,74F-	Aluminum	9.118E+00	2.586E+01	Q	1.749E+01	NA (b)	3.485E-03	2.927E-03	NA (b)	5974.77	NA (b)	A
1.10	Antimony	1.249E-02	3.867E-02	Q	2.558E-02	NA (b)	4.996E-04	4.193E-04	NA (b)	61.01	NA (b)	4
1.777E-04 9.200E-02 ND 5.871E-02 NA (b) 3.812E-05 NA (b) 1.778E-05 NA (b) 1.783E-05 NA (b) 1.708 2.39 NA (b) 1.708 NA (b) 1.7	Arsenic	2.310E-04	Q	QN	2.310E-04	NA (b)	3.430E-04	2.886E-04	NA (b)	0.80	NA (b)	ш
1 2.845E-05 5.633E-05 ND 4.264E-05 NA (b) 2.124E-05 1.783E-05 NA (b) 2.33 n 1.77E-04 5.572E-04 ND 4.264E-05 NA (b) 2.124E-05 3.635E-05 NA (b) 7.437E-05 3.635E-05 NA (b) 7.437E-05 0.535E-05 NA (b) 7.437E-05 0.535E-05 NA (b) 7.437E-05 0.529E-05 NA (b) 1.761 m 5.17E-04 7.573E-04 ND 1.17E-02 NA (b) 7.437E-05 0.529E-05 NA (b) 1.761 1.761 m 5.14E-04 7.573E-03 ND 3.72EE-03 NA (b) 7.31E-05 NA (b) 1.739E-04 NA (b) 2.739E-04 NA (b) 2.739E-04 NA (b) 2.739E-04 NA (b) 2.739E-04 NA (b) 2.739E-05 NA (b) 2.739E-05 NA (b) 2.739E-05 NA (b) 1.739E-04 NA (b) 2.739E-05 NA (b) 1.739E-04 NA (b) 1.739E-04 NA (b) 1.739E-04 NA (b) 1.739E-04 NA (b)	Barium	2.451E-02	9.290E-02	Q	5.871E-02	NA (b)	3.812E-05	3.199E-05	NA (b)	1835.09	(a) AN	∢
n 1,777E-04 5,372E-04 ND 3,575E-04 NA (b) 4,334E-05 0.6,89E-05 NA (b) 1,006 m 5,114E-04 1,772E-04 1,772E-04 1,777E-04 1,777E-04 ND 1,107E-03 NA (b) 7,487E-05 6,289E-05 NA (b) 1,761 m 5,131E-04 1,764E-03 ND 3,728E-04 NA (b) 1,538E-04 NA (b) 2,4147 m 2,257E-03 5,196E-03 ND 3,726E-03 NA (b) 2,818E-04 NA (b) 2,4147 m 1,14E-01 3,096E-01 ND 3,726E-03 NA (b) 3,238E-04 NA (b) 1,573 see 2,227E-02 ND 3,277E-02 NA (b) 3,238E-04 NA (b) 1,673 see 2,436E-02 ND 3,277E-02 NA (b) 3,238E-04 NA (b) 1,738E-04 1,738E-04 NA (b) <td>Beryllium</td> <td>2.845E-05</td> <td>5.683E-05</td> <td>Q</td> <td>4.264E-05</td> <td>NA (b)</td> <td>2.124E-05</td> <td>1.783E-05</td> <td>NA (b)</td> <td>2.39</td> <td>NA (b)</td> <td>ပ</td>	Beryllium	2.845E-05	5.683E-05	Q	4.264E-05	NA (b)	2.124E-05	1.783E-05	NA (b)	2.39	NA (b)	ပ
m 5,138E-04 1,704E-03 ND 1,107E-03 NA (b) 7,487E-05 6,289E-05 NA (b) 17,61 1,213E-04 1,573E-04 1,573E-04 1,573E-04 NA (b) 1,487E-05 6,289E-05 NA (b) 1,638E-04 1,638E-04 NA (b) 2,4147 1,833E-02 5,596E-03 ND 3,73EE-03 NA (b) 2,89E-04 NA (b) 2,417 1,114E-01 3,036E-01 ND 3,72EE-03 NA (b) 7,310E-04 6,139E-04 NA (b) 15,73 1,148E-01 3,036E-01 ND 3,77EE-02 NA (b) 7,310E-04 6,139E-04 NA (b) 15,73 1,148E-03 4,148E-02 ND 3,27E-02 NA (b) 3,253E-05 1,73E-04 NA (b) 1,73E-04 NA (b) 1,73E-04 NA (b) 1,73E-04 1,73E-04	Cadmium	1.777E-04	5.372E-04	2	3.575E-04	NA (b)	4.234E-05	3.553E-05	NA (b)	10.06	NA (b)	A
3273E-04 7,573E-04 ND 5,423E-04 NA (b) 7,487E-05 6,289E-05 NA (b) 8,622	Chromium	5.114E-04	1.704E-03	Q	1.107E-03	NA (b)	7.487E-05	6.289E-05	NA (b)	17.61	NA (b)	A
1838E-04	Cobalt	3.273E-04	7.573E-04	Q	5.423E-04	NA (b)	7.487E-05	6.289E-05	NA (b)	8.62	NA (b)	8
2.257E-03 5.196E-03 ND 3.726E-03 NA (b) 2.819E-04 2.369E-04 NA (b) 15.73	Copper	1.833E-02	5.596E-02	Q	3.714E-02	NA (b)	1.838E-04	1.538E-04	NA (b)	241.47	NA (b)	4
um 1.14E-01 3.096E-01 ND 2.075E-01 NA (b) 7.310E-04 6.139E-04 NA (b) 33795.13 586 2.420E-02 2.413E-02 ND 3.27F-02 NA (b) 3.23E-05 2.73E-05 NA (b) 12.03.71 1.189E-03 2.62E-03 ND 1.92E-03 NA (b) 8.03E-04 9.611E-05 NA (b) 87.34 1.189E-03 7.74SE-03 ND ND ND NA (b) 8.03E-04 9.611E-05 NA (b) 87.34 1.0 ND ND ND NA (b) 8.03E-04 2.28TE-04 NA (b) 87.34 ND ND ND NA (b) 8.07E-05 4.274E-05 NA (b) ND ND ND ND NA (b) 8.07E-05 4.274E-05 NA (b) ND 1.466E-02 4.140E-02 ND 1.81F-05 NA (b) 1.07E-04 5.46E-04 1.666E-02 1.686E-07 1.66E-07 1.66E-07 1.7460E-05 1.460E-07 1.466E-07 </td <td>Lead</td> <td>2.257E-03</td> <td>5.196E-03</td> <td>Q</td> <td>3.726E-03</td> <td>NA (b)</td> <td>2.818E-04</td> <td>2.369E-04</td> <td>NA (b)</td> <td>15.73</td> <td>NA (b)</td> <td>A</td>	Lead	2.257E-03	5.196E-03	Q	3.726E-03	NA (b)	2.818E-04	2.369E-04	NA (b)	15.73	NA (b)	A
See 2.420E-02 4.135E-02 ND 3.277E-02 NA (b) 3.253E-05 NA (b) 1.203.71	Magnesium	1.114E+01	3.036E+01	QV	2.075E+01	NA (b)	7.310E-04	6.139E-04	NA (b)	33795.13	NA (b)	A
1.189E-03 2.662E-03 ND 1.926E-03 NA (b) 1.143E-04 9.611E-05 NA (b) 2.004 1.145E-02 7.749E-02 ND 5.897E-02 NA (b) 6.725E-04 6.752E-04 NA (b) ND ND ND NA (b) 2.723E-04 2.87E-04 NA (b) ND ND ND ND ND NA (b) 6.439E-04 5.404E-05 NA (b) ND ND ND ND ND ND ND N	Manganese	2.420E-02	4.135E-02	ON	3.277E-02	NA (b)	3.253E-05	2.723E-05	NA (b)	1203.71	NA (b)	¥
1.05	Nickel	1.189E-03	2.662E-03	QN	1.926E-03	NA (b)	1.143E-04	9.611E-05	NA (b)	20.04	NA (b)	٨
1 ND ND ND NA (b) 2,723E-04 2,287E-04 NA (b) ND ND ND NA (c) ND NA (c) ND ND ND ND NA (c) ND ND ND NA (c) ND ND ND NA (c) ND ND NA (c) ND ND NA (c) ND ND NA (c) ND ND ND NA (c) ND ND ND ND ND ND NA (c) ND	Phosphorus	4.045E-02	7.749E-02	QV	5.897E-02	NA (b)	8.032E-04	6.752E-04	NA (b)	87.34	NA (b)	¥
ND ND ND ND NA (b) 5.078E-05 4.274E-05 NA (b) ND ND ND ND ND ND ND N	Selenium	Q	Q	QN	ON	NA (b)	2.723E-04	2.287E-04	NA (b)	Q	NA (b)	Ŀ
ND ND ND NA (b) 6.439E-04 5.404E-04 NA (b) ND NA (c) 6.112E-04 5.132E-04 NA (c) 5.405E-07 NA (c) 5.436 NA (c) 6.823E-06 2.953E-05 ND 1.817E-05 NA (c) 1.078E-06 7.460E-07 NA (c) 24.36	Silver	2	9	Q	Q	NA (b)	5.078E-05	4.274E-05	NA (b)	QN	NA (b)	£
1.466E-02 4.140E-02 ND 2.803E-02 NA (b) 6.112E-04 5.132E-04 NA (b) 54.62 A.62 NA (c) 2.953E-05 ND 1.817E-05 NA (b) 1.078E-06 7.460E-07 NA (b) 24.36	Thallium	Q	Q	Q	ON	NA (b)	6.439E-04	5.404E-04	NA (b)	QN	NA (b)	u.
6.823E-06 2.953E-05 ND 1.817E-05 NA (b) 1.078E-06 7.460E-07 NA (b) 24.36	Zinc	1.466E-02	4.140E-02	QN	2.803E-02	NA (b)	6.112E-04	5.132E-04	NA (b)	54.62	NA (b)	A
	Mercury	6.823E-06	2.953E-05	2	1.817E-05	NA (b)	1.078E-06	7.460E-07	NA (b)	24.36	NA (b)	٧

Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD.

b Insufficient material to analyze.

A = Identified as a contaminant (greater than or equal to 10 times background or minimum MQL)
B = Likely contaminant (less than 10 and greater than or equal to 5 times background or minimum MQL)
C = Probable contaminant (less than 5 and greater than or equal to 2 times background or minimum MQL)
D = Measured, but accuracy or presence questionable (less than 2 and greater than or equal to 1 times background or minimum MQL)
F = Not considered a contaminant (less than 1 times background or minimum MQL)

TABLE A-4. AEC - TSP, PM₁₉, HCVC1₅, DIOXIN/FURAN, CO, CO₂, NOx, SO₂, AND METALS RUN NO. 1 DATA FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

Mol	Molecular Weight	Average Concentration - Run 1, ppbv	Average Concentration - Run 1, mg/m³	Background - Concentration, mg/m³	Background Corrected Concentration - Run 1, mg/m³	Dilution Correction Factor (8), %	Corrected Concentration Run 1, mg/m³	Initial Plume Volume, ft³	Sample Total Material - Run 1, lb	Number of Items	Corrected Emission Factor - Run 1, Ib/Item
Particulate	1	1	1 0415±02	-6.28RE-02	1 041F±02	9886	1 108F±02	35.621	2 464E-01	2	1.232E-01
- Wd			1.259E+02	-8.049E-01	1.267E+02	0.9752	1.299E+02	35,621	2.889E-01	8	1.445E-01
Hydrogen Chloride (HCI)/Chlorine (Cl ₂)											
HCI (b)	36	43.735	6.633E-02	QN	6.633E-02	0.9112	7.280E-02	35,621	1.619E-04	2	8.094E-05
Cl ₂ (b)	71	22.735	6.706E-02	3.877E-03	6.318E-02	0.9112	6.934E-02	35,621	1.542E-04	2	7.709E-05
Onvin/Erress	\dagger										
Dioxin TEQ (c)	<u> </u>	-	1.217E-09	QV	1.217E-09	0.9112	1.336E-09	35,621	2.970E-12	2	1.485E-12
Continuous Emissions Monitoring (CEM) System	ε										
(c	28	1427.143	1.662E+00	2.687E-01	1.394E+00	0.8327	1.674E+00	35,621	3.722E-03	2	1.861E-03
Nitrogen Oxide (NOx)	46	2352.856	4.502E+00	3.974E-02	4.463E+00	0.8327	5.359E+00	35,621	1.192E-02	2	5.959E-03
HCI (b)	36	-1340.773	-2.008E+00	-2.129E-01	-1.795E+00	0.8327	QN	35,621	Q	2	S
Carbon Dioxide (CO ₂)	44	369758.100	6.768E+02	6.726E+02	4.218E+00	0.8327	5.066E+00	35,621	1.127E-02	2	5.633E-03
Sulfur Dioxide (SO ₂)	28	41.495	1.105E-01	-2.744E-02	1.379E-01	0.8327	1.656E-01	35,621	3.683E-04	2	1.842E-04
Particulate-phase Metals											
	27	8118.105	9.118E+00	NA (d)	9.118E+00	0.9396	9.704E+00	35,621	2.158E-02	2	1.079E-02
Antimony	122	2.461	1.249E-02	NA (d)	1.249E-02	0.9396	1.330E-02	35,621	2.957E-05	2	1.478E-05
Arsenic	75	0.074	2.310E-04	NA (d)	2.310E-04	0.9396	2.459E-04	35,621	5.468E-07	2	2.734E-07
	137	4.301	2.451E-02	NA (d)	2.451E-02	0.9396	2.609E-02	35,621	5.802E-05	2	2.901E-05
Beryllium	6	0.076	2.845E-05	NA (d)	2.845E-05	0.9396	3.028E-05	35,621	6.733E-08	2	3.366E-08
	112	0.038	1.777E-04	NA (d)	1.777E-04	0.9396	1.891E-04	35,621	4.206E-07	2	2.103E-07
Chromium	52	0.236	5.114E-04	NA (d)	5.114E-04	0.9396	5.443E-04	35,621	1.210E-06	2	6.052E-07
Cobalt	59	0.133	3.273E-04	NA (d)	3.273E-04	0.9396	3.484E-04	35,621	7.747E-07	2	3.874E-07
Copper	64	6.886	1.833E-02	NA (d)	1.833E-02	0.9396	1.951E-02	35,621	4.339E-05	2	2.169E-05
Lead	207	0.262	2.257E-03	NA (d)	2.257E-03	0.9396	2.402E-03	35,621	5.341E-06	2	2.671E-06
Magnesium	24	11158.650	1.114E+01	NA (d)	1.114E+01	0.9396	1.186E+01	35,621	2.637E-02	2	1.318E-02
Manganese	55	10.575	2.420E-02	NA (d)	2.420E-02	0.9396	2.575E-02	35,621	5.726E-05	2	2.863E-05
Nickel	59	0.485	1.189E-03	NA (d)	1.189E-03	0.9396	1.266E-03	35,621	2.815E-06	2	1.407E-06
Phosphorus	31	31.370	4.045E-02	NA (d)	4.045E-02	0.9396	4.305E-02	35,621	9.574E-05	2	4.787E-05
Setenium	79	ON	ND	NA (d)	Q	0.9396	Q	35,621	Q	2	2
	108	ON	ON	NA (d)	ON	0.9396	Q	35,621	QN	2	Q
Thallium	204	ON	QN	NA (d)	ON	0.9396	QN	35,621	QN	2	Q
Zinc	65	5.420	1.466E-02	NA (d)	1.466E-02	0.9396	1.560E-02	35,621	3.469E-05	2	1.734E-05
Mercury	201	0.001	6.823E-06	NA (d)	6.823E-06	0.9396	7.262E-06	35,621	1.615E-08	2	8.074E-09

a Estimated from tracer data as presented in Volume IV.

b HCI/CI₂ levels were too low to be reliably measured.

c.
Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD. Presence questionable - reported at similar levels in samples and blanks.
d
Insufficient material to analyze.

TABLE A-5. AEC - TSP, PM₁₀, HCJCI₂, DIOXIN/FURAN, CO, CO₂, NOx, SO₂, AND METALS RUN NO. 2 DATA FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

									CONTRACTOR		
					Background						Corrected
		Average .	Average	Background -	Corrected	Dilution	Corrected		Sample Total	•	Emission
Compaind	Molecular	Concentration - Run 2. poby	Concentration - Bun 2. ma/m*	Concentration, ma/m³	Concentration - Run 2. ma/m ³	Correction Factor (a), %	Concentration - Run 2, mg/m ³	Volume, ft	Material - Run 2, 1b	Number of Items	2, lb/item
	9										
Particulate									70 L000 0	G	00 1010
SP			9.407E+01	-6.288E-02	9.414E+01	0.7537	1.249E+02	34,471	2.688E-01	5	8.959E-02
PM ₁₀			1.103E+02	-8.049E-01	1.111E+02	0.8899	1.249E+02	34,471	2.688E-01	3	8.958E-02
Hydrogen Chloride (HCI)/Chlorine (CL)											
HOI (b)	36	52.845	8.015E-02	QN	8.015E-02	0.5847	1.371E-01	34,471	2.950E-04	3	9.833E-05
Cl ₂ (b)	1.2	20.281	5.982E-02	3.877E-03	5.594E-02	0.5847	9.568E-02	34,471	2.059E-04	3	6.863E-05
Dioxin/Furan											
Dioxin TEQ (c)		•	1.757E-09	QN	1.757E-09	0.5847	3.006E-09	34,471	6.468E-12	3	2.156E-12
Continuous Emissions Monitoring (CEM) System	ystem										
Carbon Monoxide (CO)	28	2144.911	2.498E+00	1.258E-01	2.373E+00	0.2722	8.717E+00	34,471	1.876E-02	3	6.253E-03
Nitrogen Oxide (NOx)	46	2844.788	5.444E+00	5.384E-02	5.390E+00	0.2722	1.980E+01	34,471	4.261E-02	3	1.420E-02
HCI (b)	36	-1113.386	-1.667E+00	3.737E-01	-2.041E+00	0.2722	Q	34,471	Q	3	9
Carbon Dioxide (CO ₂)	44	373605.500	6.838E+02	6.758E+02	8.010E+00	0.2722	2.943E+01	34,471	6.333E-02	3	2.111E-02
Sulfur Dioxide (SO ₂)	2	47.419	1.262E-01	-5.272E-03	1.315E-01	0.2722	4.832E-01	34,471	1.040E-03	3	3.466E-04
Particulate-phase Metals											
Aluminum	27	23019.445	2.586E+01	NA (d)	2.586E+01	0.7537	3.430E+01	34,471	7.382E-02	8	2.461E-02
Antimony	122	7.619	3.867E-02	NA (d)	3.867E-02	0.7537	5.130E-02	34,471	1.104E-04	8	3.680E-05
Arsenic	75	QN	QN	NA (d)	Q	0.7537	Q	34,471	₽	8	2
Barium	137	16.300	9.290E-02	NA (d)	9.290E-02	0.7537	1.233E-01	34,471	2.652E-04	6	8.841E-05
Beryllium	6	0.152	5.683E-05	NA (d)	5.683E-05	0.7537	7.540E-05	34,471	1.623E-07	8	5.409E-08
Cadmium	112	0.115	5.372E-04	NA (d)	5.372E-04	0.7537	7.128E-04	34,471	1.534E-06	8	5.113E-07
Chromium	52	0.788	1.704E-03	NA (d)	1.704E-03	0.7537	2.260E-03	34,471	4.864E-06	8	1.621E-06
Cobalt	59	0.309	7.573E-04	NA (d)	7.573E-04	0.7537	1.005E-03	34,471	2.162E-06	2	/.208E-0/
Copper	64	21.017	5.596E-02	NA (d)	5.596E-02	0.7537	7.424E-02	34,471	1.598E-04	6	5.326E-05
ead	207	0.603	5.196E-03	NA (d)	5.196E-03	0.7537	6.893E-03	34,471	1.483E-05	3	4.945E-06
Magnesium	24	30404.444	3.036E+01	NA (d)	3.036E+01	0.7537	4.028E+01	34,471	8.667E-02	င	2.889E-02
Mandanese	55	18.072	4.135E-02	NA (d)	4.135E-02	0.7537	5.486E-02	34,471	1.181E-04	ဗ	3.935E-05
Nickel	29	1.085	2.662E-03	NA (d)	2.662E-03	0.7537	3.532E-03	34,471	7.601E-06		2.534E-06
Phosphorus	31	980.09	7.749E-02	NA (d)	7.749E-02	0.7537	1.028E-01	34,471	2.212E-04	ဗ	7.375E-05
Selenium	79	Q	Q	NA (d)	QV	0.7537	QN	34,471	QV	ဇ	2
Silver	108	Q	Q	NA (d)	QN	0.7537	QN	34,471	QN	3	2
Thallium	204	QN	Q	NA (d)	QN	0.7537	QN	34,471	QN	3	Q
Zinc	88	15.312	4.140E-02	NA (d)	4.140E-02	0.7537	5.494E-02	34,471	1.182E-04		3.941E-05
Mercury	201	0.004	2.953E-05	NA (d)	2.953E-05	0.7537	3.917E-05	34,471	8.430E-08	3	2.810E-08

a Estimated from tracer data as presented in Volume IV. b HCI/Cl₂ levels were too low to be reliably measured.

c Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD. Presence questionable - reported at similar levels in samples and blanks.

d Insufficient material to analyze.

TABLE A-6. AEC - DIOXIN/FURAN COMPOSITE RUN NO. 1-2 DATA FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

Average Background Corrected Dilution Corrected Sample Total Emission Concentration. Concentrati		ND ND ND 0.7480 ND 35,046 ND 2.5 ND	
Average Concentration - Concentr Run 1-2, ppbv Run 1-2,			
Motecutar Weight			
Compound	oxin/Furan	oxin TEQ (b)	

a Estimated from tracer data as presented in Volume IV. b Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD. Presence questionable - reported at similar levels in samples and blanks.

TABLE A-7. AEC - VOC DATA EVALUATION FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

	Compound (a)	Average Concentration - Run 1, mg/m²	Average Concentration - Run 2, mg/m²	Average Concentration - Run 1-2, mg/m ³	Average Background - Concentration, mg/m³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³	Background Evaluation Criteria	Minimum Detection Limit Evaluation Criteria	Background Evaluation Notes	Minimum Detection Limit Evaluation Notes
1200E-20 1300E-01 1300E-01 1300E-01 1300E-01 1000E-04 1100E-04 1100E-04	Total Nonmethane Hydrocarbons (TNMHC)										
1,000 1,00	TNMHC	Ц	1.930E-01	1.580E-01	2.165E-02	1.000E-04	1.000E-04	7.30	1580.00	8	٧
2.000E-04 2.000E-05 2.000E-04 2.00	Volatile Organic Compounds (VOCs)										
2,31656.20 4,4156.20 4,4156.20 4,4156.20 1,0005.40 <	Ethane	2.900E-03	3.400E-03	3.150E-03	2.700E-03	1.000E-04	1,000E-04	1.17	31.50	٥	A
2.000E-04 2.000E-04 1.000E-04 1.00	Ethylene	2.430E-02	4.660E-02	3.545E-02	1.000E-04	1.000E-04	1.000E-04	354.50	354.50	A	A
2.200E-04 2.200E-04 2.200E-04 1.000E-04 1.000E-04 <t< td=""><td>Acetylene</td><td>3.180E-02</td><td>5.710E-02</td><td>4.445E-02</td><td>7.000E-04</td><td>1.000E-04</td><td>1.000E-04</td><td>63.50</td><td>444.50</td><td>A</td><td>A</td></t<>	Acetylene	3.180E-02	5.710E-02	4.445E-02	7.000E-04	1.000E-04	1.000E-04	63.50	444.50	A	A
2.000E-04 1,000E-04 1,000E-04 <t< td=""><td>Propane</td><td>2.300E-03</td><td>2.300E-03</td><td>2.300E-03</td><td>1.650E-03</td><td>1.000E-04</td><td>1.000E-04</td><td>1.39</td><td>23.00</td><td>D</td><td>٧</td></t<>	Propane	2.300E-03	2.300E-03	2.300E-03	1.650E-03	1.000E-04	1.000E-04	1.39	23.00	D	٧
8.000E644 1,000E644 4,000E644 1,000E644 1,000E44	Propene	5.200E-03	1.020E-02	7.700E-03	QN	1.000E-04	1.000E-04	10.00	77.00	A	A
2000E-04 1,000E-04 1,000	i-Butane	5.000E-04	4.000E-04	4.500E-04	4.000E-04	1.000E-04	1.000E-04	1.13	4.50	a	ပ
TAONE-44 TAONE-45 TAONE-45 TAONE-44 TAONE-44	i-Butene	3.000E-04	1.000E-03	6.500E-04	Q	1.000E-04	1.000E-04	10.00	6.50	Α.	20
1,000E-04 1,00	1-Butene	7.000E-04	1.700E-03	1.200E-03	2	1.000E-04	1.000E-04	10.00	12.00	V.	∢ .
1,000E-04 1,00	1,3-butadiene	7.000E-04	7.000E-03	1.050E-03	ND SOCIAL	1.000E-04	1.000E-04	00.00	10.50	< u	< 0
1,000E-04 2,000E-04 1,000E-04 1,00	ri-butane	7.000E-04	7.000E-04	7.000E-04	7.500E-04	1.000E-04	1.000E-04	0.35	7.00		0 <
1,000E-04 1,00	2 2-Dimethylpropane	ND ON	SOOE-03	A.GSOE-US	2 2	1 000E-04	1 000F-04	GN	ON ON	СL	c u
MD 1,000E-04	cis-2-Butene	1.000E-04	3.000E-04	2 000E-04	S	1 000E-04	1.000E-04	10.00	2.00	•	. 0
MONE-04 1,000E-04 1,000E	3-Methyl-1-butene	QN	2.000E-04	2.000E-04	QV	1.000E-04	1.000E-04	10.00	2.00	A	O
ND	i-Pentane	4.000E-04	5.000E-04	4.500E-04	3.500E-04	1.000E-04	1.000E-04	1.29	4.50	٥	O
ND	1-Pentene	QV	Q	S	S	1.000E-04	1.000E-04	Q	QN	L	ш
3000E-04 5,000E-04 1,000E-04 1,000	2-Methyl-1-butene	QN	ON	GN	ON	1.000E-04	1.000E-04	QN	QN	F	L.
ND	n-Pentane	3.000E-04	5.000E-04	4.000E-04	2.500E-04	1.000E-04	1,000E-04	1.60	4.00	٥	ပ
ND	Isoprene	Q	Q	Q	1.000E-04	1.000E-04	1,000E-04	Q	QN	L	u.
ND	trans-2-Pentene	Q	QV	QN	QN	1.000E-04	1.000E-04	QN	QN	L	ш
ND	cis-2-Pentene	2	Q	Q	QN	1.000E-04	1.000E-04	QN	Q	F	ш
ND ND ND ND ND ND ND ND	2-Methyl-2-butene	2	Q	Q	Q	1.000E-04	1.000E-04	Q	Q	щ	ц.
ND	2,2-Dimethylbutane	2	2.000E-04	2.000E-04	1.000E-04	1.000E-04	1.000E-04	2.00	2.00	0	ပ
NO	Cyclopentene		2	2	2	1.000E-04	1.000E-04	Q S	Q G	<u>.</u>	<u>.</u>
ND	4-Metnyr-1-pentene	2 2	22		22	1.000E-04	1.000E-04		2 2	1 11	L
ND	2.3-Dimethylbutane	2	Q	2	QN	1.000E-04	1.000E-04	Q	2	. և.	u
2,000E-04 2,000E-04 2,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 ND	cis-4-Methyl-2-pentene	QN	Q	2	Q	1.000E-04	1.000E-04	Q	2	ш	L.
ND ND 1,000E-04 1,000E-04 1,000E-04 1,000E-04 ND PF F ND 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000 1,00	2-Methylpentane	2.000E-04	2.000E-04	2.000E-04	1.000E-04	1.000E-04	1.000E-04	2.00	2.00	ပ	ပ
ND ND ND 1,000E-04 ND	3-Methylpentane	QN	ND	QN	1.000E-04	1.000E-04	1.000E-04	QN	QN	F	ш
ND 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000 1,00 A	2-Methyl-1-pentene	Q	Q	2	Q	1.000E-04	1.000E-04	Q	9	L	ட
2.00E-04 2.00E-04 2.00E-04 2.00E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.000E-04 1.00 2.00 D ND ND ND ND 1.000E-04 1.	1-Hexene	Q	1.000E-04	1.000E-04	Q	1.000E-04	1.000E-04	10.00	1.00	¥	۵
ND	n-Hexane	2.000E-04	2.000E-04	2.000E-04	2.000E-04	1.000E-04	1.000E-04	1.00	2.00	٥	0
ND ND ND ND ND 1,000E-04 1,000E-04 ND ND F ND ND ND ND ND	trans-2-Hexene	2	9	2	Q	1.000E-04	1.000E-04	Q	2	ı. İ	ı. l
ND ND ND ND 1,000E-04 1,00E-04 1,000E-04 1,00E-04 1,000E-04 2-Methyl-2-pentene	Q	2	2	Q	1.000E-04	1.000E-04	2	2	4	щ	
1.000E-04 1.00	cis-2-Hexene	QN	2	2	QN	1.000E-04	1.000E-04	Q	QN	4	4
Idane 2.000E-04 2.000E-04 1.000E-04 1.000E-04 1.000E-04 2.00 2.00 C 7.500E-03 1.230E-02 9.900E-03 5.500E-04 1.000E-04 1.000E-04 18.00 99.00 A ND ND ND ND ND ND ND F Idane ND ND 1.000E-04 1.000E-04 ND ND F Idane ND ND ND 1.000E-04 1.000E-04 ND ND F Idane ND ND 1.000E-04 1.000E-04 ND ND F	Methylcyclopentane	1.000E-04	1.000E-04	1.000E-04	1.000E-04	1.000E-04	1.000E-04	1.00	1.00	٥	۵
Control	2,4-Dimethylpentane	2.000E-04	2.000E-04	2.000E-04	1.000E-04	1.000E-04	1.000E-04	2.00	2.00	ပ .	ο.
ND	Benzene	7.500E-03	1.230E-02	9.900E-03	5.500E-04	1.000E-04	1.000E-04	18.00	00.66	∢ .	V
Rane ND ND ND 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 ND ND F	Cyclohexane	Q S	2	2	Q	1.000E-04	1.000E-04	2	2	ш	ш
ND ND 1,000E-04 1,000E-04 ND ND F	Z-Metnylnexane	2 2	2	2	ON O	1.000E-04	1.000E-04	2	29	-	1
ND ND 2.000E-04 1.000E-04 ND	z,o-Dimetriyipentane	2	2 5	2	1.000E-04	1.000E-04	1.000E-04	2	2		
	3-Metnyinexane	2	2	2	2.000E-04	1.000E-04	1.000E-04	ON THE	2	-	

TABLE A-7. AEC - VOC DATA EVALUATION FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

	Average	Average	Average	Average Background -	Average Maximum Detection Limit	Average Minimum Detection Limit -	Background	Minimum Detection Limit	Background	Minimum Detection Limit
Compound (a)	Concentration - Run 1, mg/m³	Concentration - Run 2, mg/m³	Concentration - Run 1-2, mg/m³	Concentration, mg/m³	Concentration, mg/m³	Concentration, mg/m³	Evaluation Criteria	Evaluation Criteria	Evaluation Notes	Evaluation Notes
2,2,4-Trimethylpentane	7.000E-04	8.000E-04	7.500E-04	3.500E-04	1.000E-04	1.000E-04	2.14	7.50	ပ	В
n-Heptane	2.000E-04	ND	2.000E-04	1.000E-04	1.000E-04	1.000E-04	2.00	2.00	ပ	ပ
2,4,4-Trimethyl-1-pentene	ON	ON	QN	QN	1.000E-04	1.000E-04	QN	QN	Ŀ	u.
Methylcyclohexane	Q	Q	Q	Q	1.000E-04	1.000E-04	Q	Q	<u>.</u>	4
2,4,4-Trimethyl-2-pentene	QN	ND	Q	Q	1.000E-04	1.000E-04	Q	Q	L	щ
2,5-Dimethylhexane	1.000E-04	1.000E-04	1.000E-04	1.000E-04	1.000E-04	1.000E-04	1.00	8	٥	ا۵
2,4-Dimethylhexane	1.000E-04	2.000E-04	1.500E-04	1.000E-04	1.000E-04	1.000E-04	1.50	1.50	٥	٥
2,3,4-Trimethylpentane	1.000E-04	2.000E-04	1.500E-04	1.000E-04	1.000E-04	1.000E-04	1.50	1.50	م	2
Toluene	2.000E-03	3.000E-03	2.500E-03	6.000E-04	1.000E-04	1.000E-04	4.17	25.00	S	V .
2,3-Dimethylhexane	Q	ON	9	9	1.000E-04	1.000E-04	9	2	u. I	u.
2-Methylheptane	Q.	Q.	Q S	2	1.000E-04	1.000E-04	2	2	ı. l	L .
3-Ethylhexane	ON :	QV.	Q :	Q :	1.000E-04	1.000E-04	2	2 !	٠	
2,2-Umethylheptane	2	ON	ON COLOR	2	1.000E-04	1.000E-04	ON S	28	1	1
2,2,4-i ilinetilyliteXalie	2 2	2.000E-04	4 000E 04	2 2	1.000E-04	1.000 = 04	10.00	2.00	() [
Ethionolohovano	ON CA	1.000E-04	-0000-04	2 2	1.000E-04	1,000 = 04	0.01	8.2	(4) L
Ethylparzene	5 000E-04	5 000E-04	5 000E-04	1 000E-04	1.000E-04	1 000 -04	200	5 6	_ a	_ α
m-Yylono & n-Yylono	1 300E-04	1 200E-04	1 500E-04	6 500E-04	10001-04	1 000E-04	2.50	20.4		
Styrene	4 000F-04	7 000F-04	5 500F-04	ND CN	1 000F-04	1 000F-04	10.00	5.50	A	ar.
o-Xviene	6.000E-04	7.000E-04	6.500E-04	2.500E-04	1.000E-04	1 000E-04	2.60	6.50	0	8
n-Nonane	5,000E-04	4,000E-04	4.500E-04	ND	1.000E-04	1.000E-04	10.00	4.50	V	O
i-Propylbenzene	QN	ON	QN	QN	1.000E-04	1.000E-04	QN	9	u.	L
n-Propylbenzene	2.000E-04	1.000E-04	1.500E-04	1.000E-04	1.000E-04	1.000E-04	1.50	1.50	٥	٥
p-Ethyltoluene	5.000E-04	5.000E-04	5.000E-04	3.000E-04	1.000E-04	1.000E-04	1.67	2:00	D	В
m-Ethyltoluene	2.000E-04	3.000E-04	2.500E-04	1.000E-04	1.000E-04	1.000E-04	2.50	2.50	ပ	ပ
1,3,5-Trimethylbenzene	3.000E-04	4.000E-04	3.500E-04	2.000E-04	1.000E-04	1.000E-04	1.75	3.50	۵	O
o-Ethyltoluene	2.000E-04	2.000E-04	2.000E-04	ON	1.000E-04	1.000E-04	10.00	2.00	A	O
1 0 4 Trimothylhorazona B coordinational	1000	1 300	1 1505 00	1000	7000	1000	ç		ć	<
Doorg	1.000=-03	N.D.	1.1305.03	3.300E-04	1,000 -04	1,000 1	5.03	00.	>	
alpha. Pingna	TOO!	2 2	NO CIN	2 2	1 000E-04	1 0005-04	20.00	8 5	C LL	
heta-Pinene	2	2 2	2	2 2	1 000E-04	1 000E-04	2	2 2	. [1	_ u
delta 3-Carene	2	2	Q	QV	1.000E-04	1.000E-04	2	2		<u> </u>
d-Limonene	QN	QN	QN	QN	1.000E-04	1.000E-04	QN	Q.	L	L
MTBE	ON	QN	QN	QN	1.000E-04	1.000E-04	QN	QN	.	L
ETBE	QN	ON	QN	QN	1.000E-04	1.000E-04	Q	Q	ч	ш
Dichlorodifluoromethane	1.274E-03	8.369E-04	1.055E-03	1.413E-03	4.992E-04	4.992E-04	0.75	2.11	ш	O
Methylchloride	2	2	Q.	Q	2.080E-04	2.080E-04	2	2	L I	ш
Dichlorotetrafluoroethane	2	Q	QN	Q	7.114E-04	7.114E-04	Q	2	4	L.
Chloroethene	QN	Q	QN	2	2.621E-04	2.621E-04	Q	2	ш	L (
1,3-Butadiene	7.120E-04	1.424E-03	1.068E-03	2	2.246E-04	2.246E-04	10.00	4.75	¥ I	الا
Methylbromide	Q.	QN :	QN	2	3.952E-04	3.952E-04	<u> </u>	2	1	
Ethyichlonde	QN	QN I	ON .	QN	2.683E-04	2.683E-04	Q .	2	т 1	<u>.</u>
Trichloromonofluoromethane	2.445E-03	2.554E-03	2.500E-03	2.517E-03	5.699E-04	5.699E-04	0.99	4.39	ш 	اد
Vinylidenechlonde	ON OF SECTION	ON COST	ON ON	ON C	4.035E-04	4.035E-04	ON	ON S	_	щ
Metnylenechionde	1.093E-02	6.835E-03	8.883E-03	3.194E-04	3.536E-04	3.536E-04	28.7.2	25.12 CIN	¥ u	∀ u
1 1 2. Techlorod 2 2-triffingroothans	ND 8 1575-04	PO ESSO 8	ND ESTE OF	NO 3745 9	3.182E-04	3.102E-04	2 5	200	١	
1.1-Dichloroethane	ND	ND ND	CN	8.324E-04	4.118F-04	4.118E-04	S CN	GN.	3 (4.) [1
	2))	12.12.1			1		

TABLE A-7. AEC - VOC DATA EVALUATION FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

Compound (a)	Average Concentration - Run 1, mg/m³	Average Concentration - Run 2, mg/m³	Average Concentration - Run 1-2, mg/m³	Average Background - Concentration, mg/m³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m²	Background Evaluation Criteria	Minimum Detection Limit Evaluation Criteria	Background Evaluation Notes	Minimum Detection Limit Evaluation Notes
1,2-Dichloroethene	QV	QN	QN	QN	4.035E-04	4.035E-04	DN	ON	ш	ч
Chloroform	QN	QN	QN	QN	4.950E-04	4.950E-04	QN	QN	L	ıL
1,2-Dichloroethane	Q	QN	Q	Q	4.118E-04	4.118E-04	Q	Q	L	ш
Methylchloroform	3.614E-04	3.668E-04	3.641E-04	3.521E-04	5.533E-04	5.533E-04	1.03	99.0	۵	4
Benzene	7.628E-03	1.251E-02	1.007E-02	5.594E-04	3.245E-04	3.245E-04	18.00	31.03	¥	V
Carbontetrachloride	8.337E-04	8.006E-04	8.171E-04	7.262E-04	6.406E-04	6.406E-04	1.13	1.28	٥	۵
1,2-Dichloropropane	QN	ND	QV	QN	4.701E-04	4.701E-04	2	Q	ட	ш
Trichloroethylene	Q	S	Q	9	5.533E-04	5.533E-04	QN	Q	щ	ш
cis 1,3-Dichloro-1-propene	QN	QN	QN	Q	4.618E-04	4.618E-04	2	Q	ш	ш
trans 1,3-Dichloro-1-propene	9	Q	Q	QN	4.618E-04	4.618E-04	2	9	ш	ш
1,1,2-Trichloroethane	Q	QN	Q	ON	5.533E-04	5.533E-04	QN	Q	ш	ш
Toluene	2.034E-03	3.051E-03	2.543E-03	6.103E-04	3.827E-04	3.827E-04	4.17	6.64	S	80
1,2-Dibromoethane	Q	Q	Q	2	7.821E-04	7.821E-04	Q	2	щ	ц.
Perchloroethylene	Q	Q	Q	Q	6.906E-04	6.906E-04	Q	Q	щ	L.
Chlorobenzene	QV	QN	Q	Q	4.701E-04	4.701E-04	Q	Q	4	Щ
Ethylbenzene	7.676E-04	7.676E-04	7.676E-04	2	6.656E-04	6.656E-04	10.00	1.15	V	٥
m&p-Xylene	1.287E-03	1.601E-03	1.444E-03	5.892E-04	4.410E-04	4.410E-04	2.45	3.27	5	2
Styrene	Q	3.956E-04	3.956E-04	Q	4.326E-04	4.326E-04	10.00	0.91	۷	u l
1,1,2,2-Tetrachloroethane	Q	Q	2	9	6.989E-04	6.989E-04	Q	2	4	4
o-Xylene	6.103E-04	7.120E-04	6.611E-04	3.051E-04	4.410E-04	4.410E-04	2.17	1.50	S)	اد
p-Ethyltoluene	3.997E-04	4.837E-04	4.417E-04	Q	4.992E-04	4.992E-04	10.00	0.88	A	щ
1,3,5-Trimethylbenzene	2	3.074E-04	3.074E-04	2	4.992E-04	4.992E-04	10.00	0.62	4	_
1,2,4-Trimethylbenzene	9.661E-04	8.005E-04	8.833E-04	5.112E-04	4.992E-04	4.992E-04	1.73	1.77	٥	מו
Benzylchlonde	Q	Q	2	2	5.283E-04	5.283E-04	Q !	2	_	_
m-Dichioropenzene	2 5		2 5	Q S	6.115E-04	6.115E-04	2	2	١,	_
p-Uichiorobenzene	2	2	2	Q !	6.115E-04	6.115E-04	2	2 5	L	L
o-Dichioropenzene	2 5		2 5	2	6.115E-04	6.115E-04	2	2 5	_	-
1,2,4-I richlorobenzene	2	2	2	2	7.530E-04	7.530E-04	2	2	1	1
nexachiorobuladiene	NO TOOL A	ON LOCK	ON 000 F	2 2	1.086E-03	1.080E-U3		NO.		
rrienylacelylene Indana	4.939E-04	9.232E-04	V.Goon-U4	2 2	4.2435-04	4.2435-04	0.0) CN	ťΨ	2 4
9.3-Dihydro-1-methyl-1H-indene	S	S	S	E	5 491F-04	5 491F-04	S	S	. 4	. 4
2.3-Dihydro-4-methyl-1H-indene	2	2	9	2	5.491E-04	5.491E-04	2	2	L.	L.
Naphthalene	1.580E-03	2.183E-03	1.881E-03	4.632E-04	5.325E-04	5.325E-04	4.06	3.53	O	O
2-Methylnaphthalene	QV	QN	ą	Q	5.907E-04	5.907E-04	Q	g	u.	ш
1-Methylnaphthalene	QN	ND	QN	ON	5.907E-04	5.907E-04	ON	QN	Ŀ	II.
Cyanogen	QN	ON	ON	QN	2.163E-04	2.163E-04	ON	QN	Ł	ш
Methylnitrite	3.302E-04	7.248E-04	5.275E-04	QN	2.538E-04	2.538E-04	10.00	2.08	Α	၁
Acetonitrile	1.912E-04	3.699E-04	2.806E-04	ON	1.706E-04	1.706E-04	10.00	1.65	٧	٥
Acrylonitrile	QN	1.886E-04	1.886E-04	QN	2.205E-04	2.205E-04	10.00	0.86	¥	ıL
Nitromethane	1.070E-03	1.797E-03	1.433E-03	QN	2.538E-04	2.538E-04	10.00	5.65	A	8
Propanenitrile	QN	QN	QN	QN	2.288E-04	2.288E-04	QN	QN	Ŀ	ᄔ
2-Methylpropanenitrile	Q	QN	Q	QV	2.870E-04	2.870E-04	2	QN	ц.	u.
Pentanenitrile	S	Q	Q	Q	3.453E-04	3.453E-04	2	Q	ч	L.
Hexanenitrile	QV	QN	QN	QN	4.035E-04	4.035E-04	S	QN	Ŀ	ш
Benzonitrile	Q	2.555E-04	2.555E-04	Q	4.285E-04	4.285E-04	10.00	0.60	V	ш
2-Nitrophenol	3.249E-04	3.067E-04	3.158E-04	Q	5.782E-04	5.782E-04	10.00	0.55	Ą	ш
Acrolein	1.740E-03	4.296E-03	3.018E-03	2	2.330E-04	2.330E-04	10.00	12.96	٧	A
Acetone	1.126E-02	1.559E-02	1.343E-02	6.292E-03	2.330E-04	2.330E-04	2.13	57.63	5	A

TABLE A-7. AEC - VOC DATA EVALUATION FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

				Average	Average Maximum	Average Minimum		Minimum		Minimum
Compound (a)	Average Concentration - Run 1, mg/m³	Average Concentration - Run 2, mg/m³	Average Concentration - Run 1-2, mg/m³	Background - Concentration, mg/m³	Detection Limit - Concentration, mg/m³	Detection Limit - Concentration, mg/m³	Background Evaluation Criteria	Detection Limit Evaluation Criteria	Background Evaluation Notes	Detection Limit Evaluation Notes
1-Hydroxy-2-propanone	QX	2	QN	QN	3.078E-04	3.078E-04	QN	QN	ıL	u.
Furan	2.262E-04	6.072E-04	4.167E-04	QN	2.829E-04	2.829E-04	10.00	1.47	4	۵
2-Propanol	QN	QN	QN	QN	2.496E-04	2.496E-04	Q	QN	u	ш,
2-Methylpropanal	QN	QN	QN	QN	3.078E-04	3.078E-04	QN	QN	u	ட
1-Propanol	QN	QN	QN	8.791E-04	2.496E-04	2.496E-04	QV	S	u.	ш.
Methacrolein	QN	2.032E-04	2.032E-04	QN	2.912E-04	2.912E-04	10.00	0.70	A	ш
Methyl-vinyl Ketone	2.613E-04	5.590E-04	4.102E-04	QN	2.912E-04	2.912E-04	10.00	1,41	Ą	۵
MTBE	ND	QN	QN	QN	3.661E-04	3.661E-04	ND	QN	ш	LL.
2,3-Butanedione	QN	QN	QN	QN	3.578E-04	3.578E-04	QN	QN	±.	F
Butanal	3.821E-04	3.321E-04	3.571E-04	2.684E-04	2.995E-04	2.995E-04	1.33	1.19	D	D
2-Butanone	1.744E-03	2.727E-03	2.235E-03	8.793E-04	2.995E-04	2.995E-04	2.54	7.46	ပ	8
2-Methyl-1,3-dioxolane	ND	ON	QN	QN	3.661E-04	3.661E-04	QN	QN	н	4
2-Methylfuran	QN	ND	ON	QN	3.411E-04	3,411E-04	QN	QN	u.	ш
Tetrahydrofuran	ND	QN	QN	QN	2.995E-04	2.995E-04	QN	QN	щ	ட
trans-2-Butenal	3.548E-04	5.850E-04	4.699E-04	QN	2.912E-04	2.912E-04	10.00	1.61	¥	۵
Acetic Acid	2.064E-03	2.149E-03	2.106E-03	1.697E-03	2.496E-04	2.496E-04	1.24	8.44	۵	8
1-Butanol	ND	QN	ON	9.110E-04	3.078E-04	3.078E-04	QN	QN	ц	ш
2-Pentanone	3.099E-04	4.984E-04	4.042E-04	QN	3.578E-04	3.578E-04	10.00	1.13	A	O
Pentanal	8.990E-04	1.208E-03	1.054E-03	9.559E-04	3.578E-04	3.578E-04	1.10	2.94	۵	ပ
1,4-Dioxane	Q	Q	Q	QN	3.661E-04	3.661E-04	QN	ND	u.	ш
Methyl Methacrylate	S	Q	Q	Q	4.160E-04	4.160E-04	Q	ON	ц	LL.
Cyclopentanone	Q	Q	g	Q	3.494E-04	3.494E-04	QN	ND	ட	ц.
Hexanal	5.297E-04	5.956E-04	5.627E-04	5.660E-04	4.160E-04	4.160E-04	0.99	1.35	ш	D
2-Furaldehyde	1.365E-03	2.300E-03	1.833E-03	Q	3.994E-04	3.994E-04	10.00	4.59	A	ပ
Cyclohexanone	QN	Q	Q	QN	4.077E-04	4.077E-04	QN	ND	щ	U.
Heptanal	7.042E-04	7.036E-04	7.039E-04	5.144E-04	4.742E-04	4.742E-04	1.37	1.48	D	۵
2-Butoxyethanol	QN	Q	QV	QN	4.909E-04	4.909E-04	Q	Q	u.	LL.
Benzaldehyde	1.964E-03	2.276E-03	2.120E-03	7.777E-04	4.410E-04	4.410E-04	2.73	4.81	O	U
6-Methyl-5-hepten-2-one	QN	QN	QN	QN	5.242E-04	5.242E-04	2	Q	u.	LL .
Octanal	1.198E-03	1.262E-03	1.230E-03	9.778E-04	5.325E-04	5.325E-04	1.26	2.31	D	ပ
Benzofuran	QN	3.422E-04	3.422E-04	QN	4.909E-04	4.909E-04	10.00	0.70	A	ц
2-Ethyl-1-hexanol	ND	ON	QN	QN	4.992E-04	4.992E-04	QN	QN	ட	ш
Acetophonone	2.963E-04	3.033E-04	2.998E-04	QN	4.992E-04	4.992E-04	10.00	09:0	A	ш
Nonanal	1.633E-03	1.414E-03	1.523E-03	1.605E-03	5.907E-04	5.907E-04	0.95	2.58	ц.	U
Decanal	2.151E-03	1.672E-03	1.912E-03	1.352E-03	6.490E-04	6.490E-04	1.41	2:95	Q	ပ
Carbonyl Sulfide	3.888E-04	4.156E-04	4.022E-04	1.881E-04	2.496E-04	2.496E-04	2.14	1.61	ပ	۵
Carbon Disulfide	4.077E-02	6.916E-02	5.496E-02	4.533E-04	3.162E-04	3.162E-04	121.25	173.85	A	¥
Thiophene	2.894E-04	4.824E-04	3.859E-04	QN	3.494E-04	3.494E-04	10.00	1.10	A	0
Dimethyldisulfide	QN	QN	QN	QN	3.910E-04	3.910E-04	QN	QN	u	u.

a Compounds in bold represent duplicate values.

A = Identified as a contaminant (greater than or equal to 10 times background or minimum MQL)

B = Likely contaminant (less than 10 and greater than or equal to 5 times background or minimum MQL)

C = Probable contaminant (less than 5 and greater than or equal to 2 times background or minimum MQL)

D = Measured, but accuracy or presence questionable (less than 2 and greater than or equal to 1 times background or minimum MQL)

F = Not considered a contaminant (less than 1 times background or minimum MQL)

TABLE A-8. AEC - VOC RUN NO. 1 DATA FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

Compound (a) Weight Nun'i ppov Hun'i mgm mgm Hun'i mgm			Factor (b), % Hun 1, mg/m	n 🔻 volume, n			. I, italieni
1,200E-01 1,200E-02 1,200E-02 1,200E-02 1,200E-03 1,200E-03 1,200E-03 1,200E-04 1,20					7-7-	elli Gilli	
Transic Compounds (VOCs) 30 2.324 2.900E.03 2.300E.03 Propertic Compounds (VOCs) 28 20.862 2.900E.03 1.300E.04 Propertic Compounds (VOCs) 28 20.862 2.900E.03 1.000E.04 Propertic Compounds 44 1.287 2.300E.03 1.000E.04 Propertic Compounds 42 2.976 5.000E.03 1.00 Propertic Compounds 56 0.300 7.000E.04 4.000E.04 Propertic Compounds 56 0.300 7.000E.04 1.000E.04 Indicate Compounds 56 0.300 7.000E.04 1.000E.04 Propertic Compounds 56 0.300 7.000E.04 1.000E.04 Protein Compounds 56 0.100 1.000E.04 1.000E.04 Protein Compounds 56 0.100 1.000E.04 1.000E.04 Protein Compounds 56 0.100 1.000E.04 1.000E.04 Protein Compounds 57 0.100 1.000E.04 1.000E.04 Protein Compounds			0.9278 1.113E-01	35,621	2.476E-04	2	1.238E-04
30 2,324 2,300E-03 2,300E-03 28 20,862 2,400E-03 1,000E-04 28 29,401 3,140E-02 7,000E-04 44 1,257 2,300E-03 1,000E-03 45 2,376 5,000E-04 ND 100 42 2,376 5,000E-04 ND 100 56 0,207 5,000E-04 ND 100 56 0,207 5,000E-04 ND 100 ND ND ND ND <							
1000E-04 1,000E-04 1,000			0.9278 6.467E-04		1.438E-06	2	7.191E-07
96 29401 3.180E-C2 7.000E-04 1000-03 2.976 5.200E-03 7.000E-04 42 2.976 5.200E-03 1.000E-03 1000-03 1.000E-04 1.000E-04 1.000E-04 1000-03 1.000E-04 1.000E-04 ND 1000-03 1.000E-04 ND ND 1000-03 1.000E-04 ND ND 1000-03 1.000E-04 ND ND 1-butene 54 0.332 7.000E-04 ND 1-butene 56 0.043 1.000E-04 ND 1-butene 70 ND ND ND 1-butene 86 ND ND ND 2-butene 80 ND ND ND 2-butene 84 ND ND				35,621	5.800E-05	2	2.900E-05
1,227 2,300E-03 1,800E-03 1,800E-03 1,800E-04 1,200E-04 1,200E-04 1,000E-04 1,000E-0					7.454E-05	2	3.727E-05
42 2.976 5.200E-03 ND fiene 56 0.237 5.000E-04 ND fiene 56 0.230 7.000E-04 ND fiene 56 0.230 7.000E-04 ND uthere 56 0.230 7.000E-04 ND numbers 56 0.239 7.000E-04 ND numbers 72 ND ND ND numbers 72 ND ND ND 1-buttene 70 ND ND ND 1-buttene 70 ND ND ND 1-buttene 70 ND ND ND 1-buttene 86 ND ND ND ND 1-buttene 86 ND ND ND ND 2-butene 86 ND ND ND ND 1-buttene 86 ND ND ND ND 2-butene 86			0.9278 5.389E-04		1.198E-06	2	5.992E-07
Second				-	1.246E-05	2	6.232E-06
56		+	+	1	2.397E-07	2	1.198E-07
56		1	0.9278 3.233E-04	-	7.191E-07	2	3.595E-07
54 0.312 7,000E-04 ND 58 0,739 7,000E-04 8,000E-04 56 0,773 1,800E-04 ND 72 ND ND ND 70 ND ND ND 88 ND ND ND 84 ND ND ND 86 ND ND ND 84 ND ND ND 84 <td></td> <td></td> <td>\dashv</td> <td>-</td> <td>1.678E-06</td> <td>2</td> <td>8.389E-07</td>			\dashv	-	1.678E-06	2	8.389E-07
58 0.290 7,000E-04 8,000E-04 72 ND ND ND 72 ND ND ND 70 ND ND ND 8 ND ND ND 86 ND ND ND 88 ND ND ND 84 ND		+	+	35,621	1.678E-06	2	8.389E-07
56 0,773 1800E-03 ND 56 0,043 1,000E-04 ND 70 ND ND ND 86 ND ND ND 88 ND ND ND 84 ND ND ND 84 ND </td <td></td> <td>+</td> <td>+</td> <td>$\frac{1}{1}$</td> <td>QN .</td> <td>2</td> <td>ON COL</td>		+	+	$\frac{1}{1}$	QN .	2	ON COL
72 ND		+	1.9	+	4.314E-06	2	2.15/E-06
100		1	+	+	ON C	2	20100
70 ND		1	0.9278 1.078E-04	35,621	2.39/E-0/	7	1.198E-0/
7.2 N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.		+	1	+	NU 2 207E 07	2	4 400E 07
7.0 ND		+	0.9276 I.U/8E-04	1	2.337 E-07	3	NO CIV
Per State of the control of the cont			<u> </u>	35,02	2 2	, ,	2 5
Colored	1	1	+	+	2.397F-07	2	1.198E-07
70	-	<u> </u>	ON 8228	35.621	QN	2	Q
70 ND ND ND ND 70 ND ND 1,000E-04 86 ND ND ND ND 84 ND ND ND ND 86 ND ND ND ND 86 ND ND ND ND 86 ND ND ND ND 84 ND ND ND 85 2.000E-04 1.000E-04 100 1.000E-04 1.000E-04 100 ND ND ND 100 ND ND ND ND ND 100 ND ND ND ND ND ND 100 ND ND ND ND ND ND ND			H	\vdash	QN	2	QN
70 ND ND 1,000E-04 66				35,621	QN	2	QN
B6			_	35,621	QN	2	QN
B4			0.9278 ND	35,621	QV	2	Q
84 ND				35,621	2	2	2
ND ND ND ND ND ND ND ND				35,621	Q	2	2 5
NO		1	0.9278 ND	35,621	2 2	2 0	2 2
1000 1000			ļ	35,021	2 5	2	2 2
86 ND ND 1,000E-04 84 ND ND ND 84 0.029 1.000E-04 1.000E-04 100 0.048 2.000E-04 1.000E-04 78 2.311 7.500E-03 5.000E-04 84 ND ND ND 100 ND ND ND 100 ND ND ND	+		101	35,621	2.397E-07	2	1.198E-07
84 ND ND ND 84 0.029 1.000E-04 1.000E-04 100 0.048 2.000E-04 1.000E-04 78 2.311 7.500E-03 5.000E-04 84 ND ND ND 100 ND ND ND 100 ND ND ND			L		QN	2	9
84 ND			0.9278 ND	35,621	QN	2	QN
86 0.056				35,621	Q	2	Ð
84 ND	-	-	0.9278 ND	35,621	· QN	2	Q
84 ND	-			35,621	Q	2	2
S4			1	35,621	2 2	7	2 5
1,000E-04 1,00	1	+	1	35,621	2 2	7	2 9
100 0.048 2.000E-04 1.000E-04 1.000E		1	+	35,621	ON CO	7	ON LOSS,
ane /8 2.311 7.500E-03 5.000E-04 ND	+	$\frac{1}{1}$	+	+	2.397E-07	2	1.198E-07
100 ND	+	+	0.9278 7.545E-03	+	1.6/85-05	2 0	8.3895-00
tane 100 ND ND 1.000E-04	1		0.9278 0.0378 ND	+	S S	2	2 2
IND I I I I I I I I I I I I I I I I I I	+		0.3270 ON 0.378	35,021	2 2	40	2 2
NO 2000E-04	$\frac{1}{1}$		<u> </u>	35,621	2 2	200	Ş
100 148 2.000E.04 E.0	$\frac{1}{1}$		4	35,621	1 198E-06	10	5 992E-07
0.140 7.000E-04 2.000E-04	+		+	20,00	1.1305-00	,	3.332.07

TABLE A-8. AEC - VOC RUN NO. 1 DATA FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

					Background						Corrected
Compound (a)	Molecular Weight	Average Concentration - Run 1, poby	Average Concentration - Run 1, mg/m³	Background - Concentration, mg/m³	Corrected Concentration -	Dilution Correction Factor (b), %	Corrected Concentration - Run 1. ma/m³	Initial Plume Volume, ft³	Sample Total Material - Run 1. Ib	Number of	Emission Factor - Run 1. Ib/item
n-Heptane	100	0.048	2.000E-04	1.000E-04	1.000E-04	0.9278	1.078E-04	35.621	2.397E-07	2	1.198E-07
2,4,4-Trimethyl-1-pentene	112	QN	QN	QN	QN	0.9278	QV	35,621	QN	2	QN
Methylcyclohexane	98	QN	QN	QN	QN	0.9278	QN	35,621	QN	2	QN
2,4,4-Trimethyl-2-pentene	112	QN	QN	QN	QN	0.9278	QN	35,621	QN	2	QN
2,5-Dimethylhexane	114	0.021	1.000E-04	QN	1.000E-04	0.9278	1.078E-04	35,621	2.397E-07	2	1.198E-07
2,4-Dimethylhexane	114	0.021	1.000E-04	QN	1.000E-04	0.9278	1.078E-04	35,621	2.397E-07	2	1.198E-07
2,3,4-Trimethylpentane	114	0.021	1.000E-04	1.000E-04	0.000E+00	0.9278	QN	35,621	QN	2	ON
Toluene	92	0.523	2.000E-03	5.000E-04	1.500E-03	0.9278	1.617E-03	35,621	3.595E-06	2	1.798E-06
2,3-Dimethylhexane	114	Q	QN	QN	ON	0.9278	ON	35,621	QN	2	Q
2-Methylheptane	111	QN	QN	QN	ON	0.9278	ON	35,621	QN	2	QN
3-Ethylhexane	114	QN	QN	ON	ON	0.9278	QN	35,621	QN	2	QN
2,2-Dimethylheptane	128	QN	QN	QN	QN	0.9278	QN	35,621	QN	2	QN
2,2,4-Trimethylhexane	128	Q	QN	Q	Q	0.9278	QN	35,621	QN	2	QN
n-Octane	114	QN	QN	QN	QN	0.9278	ON	35,621	QN	2	QN
Ethylcydohexane	112	ON	QV	Q	Q	0.9278	QN	35,621	QN	2	QN
Ethylbenzene	160	0.075	5.000E-04	1.000E-04	4.000E-04	0.9278	4.311E-04	35,621	9.587E-07	2	4.794E-07
m-Xylene & p-Xylene	106	0.295	1.300E-03	5.000E-04	8.000E-04	0.9278	8.623E-04	35,621	1.917E-06	2	9.587E-07
Styrene	\$	0.092	4.000E-04	Q	4.000E-04	0.9278	4.311E-04	35,621	9.587E-07	2	4.794E-07
lo-Xylene	106	0.136	6.000E-04	2.000E-04	4.000E-04	0.9278	4.311E-04	35,621	9.587E-07	5	4.794E-07
n-Nonane	128	0.094	5.000E-04	Q	5.000E-04	0.9278	5.389E-04	35,621	1.198E-06	2	5.992E-07
I-Propylbenzene	120	Q	Q	2	Q	0.9278	QN	35,621	QN	2	QN
n-Propylbenzene	120	0.040	2.000E-04	QV.	2.000E-04	0.9278	2.156E-04	35,621	4.794E-07	2	2.397E-07
p-Ethyrlouene	021	0.100	5.000E-04	2	5.000E-04	0.9278	5.389E-04	35,621	1.198E-06	2	5.992E-07
m-Ethyltoluene	120	0.040	2.000E-04	2	2.000E-04	0.9278	2.156E-04	35,621	4.794E-07	2	2.397E-07
1,3,5-1 rimetnyibenzene	120	0.060	3.000E-04	2	3.000E-04	0.9278	3.233E-04	35,621	7.191E-07	2	3.595E-07
o-Ethyttoluene	120	0.040	2.000E-04	Q	2.000E-04	0.9278	2.156E-04	35,621	4.794E-07	2	2.397E-07
1,2,4-Trimethylbenzene & sec-Butylbenzene	120	0.200	1.000E-03	5.000E-04	5.000E-04	0.9278	5.389E-04	35.621	1.198E-06	8	5.992E-07
n-Decane	142	0.017	1.000E-04	QV	1.000E-04	0.9278	1.078E-04	35,621	2.397E-07	2	1.198E-07
alpha-Pinene	136	ON	QN	QN	QN	0.9278	QN	35,621	QN	2	QN
beta-Pinene	136	ON	ON	QN	QN	0.9278	QN	35,621	Q	2	9
delta 3-Carene	136	Q	QN	QN	QN	0.9278	QN	35,621	QN	2	QN
d-Limonene	136	Q	QV	QN	QN	0.9278	QN	35,621	QN	2	QN
MTBE	88	2	2	Q.	9	0.9278	Q	35,621	Q	2	2
Dichlorodifficomethane	100	0.055	1 074E 02	ND TESEE OS	ND Person	0.9278	2 2	35,621	2 2	2	2 2
Methylchloride	05	CN.	CN	NO ON	NO OF	0.3270	2 2	35,621	2 2	7 0	2 2
Dichlorotetrafluoroethane	171	2	Q	Q	2	0.9278	QX	35.621	· CR	100	2 5
Chloroethene	63	QN	QN	Q	Q.	0.9278	2	35,621	2	2	Q
1,3-Butadiene	54	0.317	7.120E-04	QN	7.120E-04	0.9278	7.674E-04	35,621	1.707E-06	2	8.533E-07
Methylbromide	95	ON	QN	QN	QN	0.9278	QN	35,621	2	2	Q
Ethylchloride	64.5	QN	QN	QN	QN	0.9278	QN	35,621	Q	2	QN
Trichloromonofluoromethane	137	0.429	2.445E-03	2.471E-03	-2.578E-05	0.9278	QN	35,621	QN	2	QN
Vinylidenechloride	26	Q	Q	Q	QN	0.9278	QN	35,621	QN	2	QN
Methylenechloride	85	3.091	1.093E-02	3.684E-04	1.056E-02	0.9278	1.138E-02	35,621	2.532E-05	2	1.266E-05
Allytchlonde	76.5	QV S	QN	Q	Q	0.9278	Q	35,621	Q	2	QN
1,1,2-Inchioro-1,2,2-Influoroethane	188	0.10	8.157E-04	8.132E-04	2.528E-06	0.9278	2.724E-06	35,621	6.058E-09	2	3.029E-09
1, I-Didiloroemane	66	2 2	2	2	2	0.9278	Q.	35,621	Q !	2	2
1,z-Dignioroemene Obloroform	410	2 2	2 2	2 5	2	0.9278	QN S	35,621	2	2	QV
Circletonia	61-	ON!	UN	ON .	ON.	0.9278	S	35,621	QN	2	Q

TABLE A-8. AEC - VOC RUN NO. 1 DATA FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

Compound (a)	Molecular Weight	Average Concentration - Run 1, ppbv	Average Concentration - Run 1, mg/m³	Background - Consentration, mg/m ¹	Background Corrected Concentration -	Dilution Correction Factor (b), %	Corrected Concentration Run 1, mg/m³	Initial Plume Volume, ft²	Sample Total Material - Run 1, Ib	Number of Items	Corrected Emission Factor - Run 1, Ib/item
1,2-Dichloroethane	66	QN	QN	QN	QN	0.9278	QN	35,621	QN	2	QN
Methylchloroform	133	0.065	3.614E-04	3.433E-04	1.805E-05	0.9278	1.945E-05	35,621	4.326E-08	2	2.163E-08
Benzene	78	2.351	7.628E-03	5.086E-04	7.120E-03	0.9278	7.674E-03	35,621	1.707E-05	2	8.533E-06
Carbontetrachloride	154	0.130	8.337E-04	7.055E-04	1.282E-04	0.9278	1.381E-04	35,621	3.072E-07	2	1.536E-07
1,2-Dichloropropane	113	QN	QN	ON	QN	0.9278	QN	35,621	ON .	2	Q
Trichloroethylene	133	QN	QN	ND	QN	0.9278	QN	35,621	QN	2	ND
cis 1,3-Dichloro-1-propene	111	QN	QN	QN	QN	0.9278	QN	35,621	QN	2	ND
trans 1,3-Dichloro-1-propene	111	QN	QŅ	ND	QN	0.9278	QN	35,621	QN	2	Q
1,1,2-Trichloroethane	133	QN	2	QV	QN	0.9278	QN	35,621	QN	2	QN
Toluene	92	0.532	2.034E-03	5.086E-04	1.526E-03	0.9278	1.644E-03	35,621	3.657E-06	2	1.828E-06
1,2-Dibromoethane	188	QN	QN	QN	QN	0.9278	QN	35,621	QN	7	Q
Perchloroethylene	166	QN	QN	QV	QN	0.9278	S	35,621	QN	2	QN
Chlorobenzene	113	ΩN	QN	QN	QN	0.9278	QN	35,621	QN	2	Q
Ethylbenzene	160	0.115	7.676E-04	Q	7.676E-04	0.9278	8.274E-04	35,621	1.840E-06	7	9.200E-07
m&p-Xylene	106	0.292	1.287E-03	4.827E-04	8.043E-04	0.9278	8.669E-04	35,621	1.928E-06	5	9.639E-07
Styrene	104	QN	QN	ND	ON	0.9278	QN	35,621	QN	2	ND
1,1,2,2-Tetrachloroethane	168	QN	QN	ND	QN	0.9278	QN	35,621	QN	2	ND
o-Xylene	106	0.138	6.103E-04	ND	6.103E-04	0.9278	6.578E-04	35,621	1.463E-06	2	7.314E-07
p-Ethyltoluene	120	0.080	3.997E-04	QN	3.997E-04	0.9278	4.308E-04	35,621	9.579E-07	2	4.790E-07
1,3,5-Trimethylbenzene	120	ND	QN	ND	QN	0.9278	ON	35,621	QN	2	Q
1,2,4-Trimethylbenzene	120	0.194	9.661E-04	4.472E-04	5.189E-04	0.9278	5.593E-04	35,621	1.244E-06	2	6.218E-07
Benzylchloride	127	Q	QN	ND	QN	0.9278	Q	35,621	Q	2	2
m-Dichlorobenzene	147	QN	ON	Q	QN	0.9278	QN	35,621	2	2	2
p-Dichlorobenzene	147	QV.	2	Q	Q	0.9278	2	35,621	Q	2	Q
o-Dichlorobenzene	147	ON C	2	Q !	Q	0.9278	ON S	35,621	2	2	2
Lyz,4- Friciliorobenzene Hovachlombigadiona	101	22	2 2	2 2	S	0.9278	22	33,021	2 2	200	2 2
Phondacahlono	103	116	NO-3050 N	2 2	100 A 020E-04	87000	NO 3555 A	35,021	1 18/E-06	7	5 040E-07
Indana	118	2 2	L SSSE-OF	2 2	A.SSSE-4	0.3270	3.363E-04	35,621	NO CN	200	NO ON
2.3-Dihydro-1-methyl-1H-indene	132	QN	S	2 2	2 2	0.3278	2	35.621	2 2	20	2
2.3-Dihydro-4-methyl-1H-indene	132	2	2	Q	QN	0.9278	2	35,621	2	2 1	2
Naphthalene	128	0.297	1.580E-03	4.245E-04	1.156E-03	0.9278	1.245E-03	35,621	2.770E-06	2	1.385E-06
2-Methylnaphthalene	142	QN	QN	QN	QN	0.9278	QN	35,621	QN	2	QN
1-Methylnaphthalene	142	QN	QN	ND	QN	0.9278	ON	35,621	QN	2	ΩN
Cyanogen	52	Q	Q	QN	QN	0.9278	2	35,621	Q ,	2	Q
Methylnitrite	61	0.130	3.302E-04	Q	3.302E-04	0.9278	3.559E-04	35,621	7.915E-07	2	3.957E-07
Acetonitrile	41	0.112	1.912E-04	Q	1.912E-04	0.9278	2.061E-04	35,621	4.584E-07	2	2.292E-07
Acrylonitrile	53	ON CO	QN .	2	Q	0.9278	2	35,621	QN	2	QN .
Nitromethane	19	0.422	1.070E-03	2	1.070E-03	0.9278	1.153E-03	35,621	2.564E-06	2	1.282E-06
2 Mothubropopolitile	22	2 2	2 2	2 2	2 2	0.9270	2 2	35,021	2 2	7 0	2 2
Pontanentrile	56	25	2 2	2 2	2 2	0.3270	2 5	35,021	2 2	2 6	2 2
Hexanenitrile	26	2 2	2 2	2 2	2 2	0.9278	2 2	35,621	2 2	2	2 2
Benzonitrile	103	Q	S	CN	S	0.9278	CN	35.621	S	2	S
2-Nitrophenol	139	0.056	3.249E-04	Q	3.249E-04	0.9278	3.502E-04	35.621	7.788E-07	2	3.894E-07
Acrolein	56	0.747	1.740E-03	QN	1.740E-03	0.9278	1.875E-03	35,621	4.171E-06	2	2.085E-06
Acetone	56	4.834	1.126E-02	7.108E-03	4.154E-03	0.9278	4.478E-03	35,621	9.958E-06	2	4.979E-06
1-Hydroxy-2-propanone	74	QN	QN	QN	ON	0.9278	QN	35,621	QΝ	2	QN
Furan	68	0.080	2.262E-04	Q	2.262E-04	0.9278	2.438E-04	35,621	5.421E-07	2	2.710E-07
2-Propanol	90	Q	Q	Q	Q	0.9278	Q	35,621	QN	2	Q

TABLE A-8. AEC - VOC RUN NO. 1 DATA FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

								7.			
	·				Background				-		Corrected
	Molecular	Average Concentration -	Average Concentration -	Background - Concentration,	Corrected Concentration -	Dilution	Corrected Concentration -	Initial Plume	Sample Total Material - Run	Number of	Emission Factor - Run
Compound (a)	Weight	Run 1, ppbv	Run 1, mg/m²	mg/m³	Run 1, mg/m³	Factor (b), %	Run 1, mg/m³	Volume, ft ³	1, lb	Items	1, lb/item
2-Methylpropanal	74	ON	QN	QN	QN	0.9278	Q	35,621	QN	2	Q
1-Propanol	09	QN	Q	8.791E-04	QN	0.9278	QN	35,621	QN	2	ND
Methacrolein	70	QN	Q	QV	QN	0.9278	ON	35,621	ON	2	ON
Methyl-vinyl Ketone	20	0.090	2.613E-04	QN	2.613E-04	0.9278	2.817E-04	35,621	6.264E-07	2	3.132E-07
MTBE	88	QN	QV	ON	GN	0.9278	QN	35,621	QN	2	QN
2,3-Butanedione	98	QN	QN	QN	QN	0.9278	QN	35,621	ON	2	QN
Butanal	72	0.128	3.821E-04	3.214E-04	6.077E-05	0.9278	6.550E-05	35,621	· 1.456E-07	2	7.282E-08
2-Butanone	72	0.582	1.744E-03	ON	1.744E-03	0.9278	1.880E-03	35,621	4.180E-06	2	2.090E-06
2-Methyl-1,3-dioxolane	88	Q	QN	ON	QN	0.9278	QN	35,621	QN	2	ND
2-Methylfuran	82	Q	QN	QN	QN	0.9278	QN	35,621	QN	2	QN
Tetrahydrofuran	72	QN	QN	ND	QN	0.9278	QN	35,621	QN	2	QN
trans-2-Butenal	70	0.122	3.548E-04	ON	3.548E-04	0.9278	3.824E-04	35,621	8.504E-07	2	4.252E-07
Acetic Acid	09	0.827	2.064E-03	2.195E-03	-1.311E-04	0.9278	ND	35,621	QN	2	QN
1-Butanol	74	QN	QN	9.110E-04	QN	0.9278	QN	35,621	ON	2	QN
2-Pentanone	98	0.087	3.099E-04	ND	3.099E-04	0.9278	3.340E-04	35,621	7.428E-07	2	3.714E-07
Pentanal	98	0.251	8.990E-04	7.957E-04	1.033E-04	0.9278	1.113E-04	35,621	2.475E-07	2	1.238E-07
1,4-Dioxane	88	ND	ON	ND	QN	0.9278	ON	35,621	QN	2	ON
Methyl Methacrylate	100	QN	ND	ND	QN	0.9278	QN	35,621	2	2	Q
Cyclopentanone	84	ON	QN	ND	QN	0.9278	ON	35,621	QN	2	QN
Hexanal	100	0.127	5.297E-04	3.526E-04	1.771E-04	0.9278	1.909E-04	35,621	4.244E-07	2	2.122E-07
2-Furaldehyde	96	0.342	1.365E-03	ND	1.365E-03	0.9278	1.471E-03	35,621	3.272E-06	2	1.636E-06
Cyclohexanone	86	QN	QN	ND	QN	0.9278	ON	35,621	QN	2	QN
Heptanal	114	0.148	7.042E-04	3.273E-04	3.769E-04	0.9278	4.063E-04	35,621	9.034E-07	2	4.517E-07
2-Butoxyethanol	118	ON	ON	ON	QN	0.9278	QN	35,621	Q	2	Q
Benzaldehyde	106	0.446	1.964E-03	6.918E-04	1.273E-03	0.9278	1.372E-03	35,621	3.050E-06	2	1.525E-06
6-Methyl-5-hepten-2-one	126	Q	Q	QN	Q	0.9278	Q	35,621	QN	2	Q
Octanal	128	0.225	1.198E-03	1.001E-03	1.969E-04	0.9278	2.122E-04	35,621	4.719E-07	2	2.360E-07
Benzofuran	118	Q	Q	Q	Q	0.9278	Q	35,621	Q	2	2
2-Ethyl-1-hexanol	120	QN	ON	ON	QN	0.9278	Q	35,621	ON	2	Q
Acetophonone	120	0.059	2.963E-04	ON	2.963E-04	0.9278	3.193Ē-04	35,621	7.101E-07	2	3.551E-07
Nonanai	142	0.276	1.633E-03	1.841E-03	-2.081E-04	0.9278	QN	35,621	ND	2	QN
Decanal	156	0.331	2.151E-03	1.958E-03	1.934E-04	0.9278	2.085E-04	35,621	4.636E-07	2	2.318E-07
Carbonyl Sulfide	9	0.156	3.888E-04	1.583E-04	2.305E-04	0.9278	2.484E-04	35,621	5.525E-07	2	2.762E-07
Carbon Disulfide	76	12.895	4.077E-02	4.600E-04	4.031E-02	0.9278	4.344E-02	35,621	9.661E-05	2	4.831E-05
Thiophene	84	0.083	2.894E-04	QN	2.894E-04	0.9278	3.119E-04	35,621	6.936E-07	2	3.468E-07
Dimethyldisulfide	94	Q	Q	Q	Q	0.9278	QN	35,621	QV	2	Q

a Compounds in bold represent duplicate values. b Estimated from tracer data as presented in Volume IV.

TABLE A-9. AEC - VOC RUN NO. 2 DATA FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

e E S S S S S S S S S S S S S S S S S S	1.930E-01 3.400E-03 4.660E-02 5.710E-02 2.300E-04 1.020E-04 1.000E-04 1.000E-03 1.700E-03 7.000E-04 3.500E-04 5.000E-04 5.000E-04	2.360E-02 3.100E-03 1.000E-04 7.000E-04 1.500E-04 ND	1.694E-01 3.000E-04 4.650E-02 5.640E-02 8.000E-04 1.020E-03 1.000E-03 1.700E-03 1.400E-03 0.000E+00 3.500E-03	0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323	1.817E-01 3.218E-04 4.98E-02 6.050E-02 8.581E-04 1.034E-02 ND 1.073E-03 1.823E-03 1.502E-03 ND 3.754E-03	34,471 34,471 34,471 34,471 34,471 34,471 34,471 34,471 34,471	3.910E-04 6.925E-07 1.073E-04 1.302E-04	8	1.303E-04
e 54 44 44 44 44 44 44 44 44 44 44 44 44	3.400E-03 3.400E-03 4.660E-02 2.300E-02 1.020E-02 4.000E-04 1.000E-03 1.400E-03 1.400E-03 7.000E-04 3.500E-04 3.500E-04 5.000E-04	2.360E-02 3.100E-03 1.000E-04 7.000E-04 1.500E-03 4.000E-04 ND ND ND ND ND ND ND ND ND ND ND ND ND	3.000E-04 4.650E-02 5.640E-02 8.000E-04 1.020E-02 0.000E+00 1.700E-03 1.700E-03 1.400E-03 0.000E+00 3.500E-03	0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323	1.817E-01 3.218E-04 4.988E-02 6.050E-02 8.581E-04 1.094E-02 1.073E-03 1.502E-03 1.502E-03 ND ND ND	34,471 34,471 34,471 34,471 34,471 34,471 34,471 34,471 34,471 34,471 34,471	3.910E-04 6.925E-07 1.073E-04 1.302E-04	3	1.303E-04
e 54 68 68 68 68 68 68 68 68 68 68 68 68 68	3.400E-03 4.660E-02 5.710E-02 2.300E-03 1.000E-03 1.700E-03 1.700E-03 1.700E-03 1.500E-04 3.500E-04 3.500E-04 5.000E-04	3.100E-03 1.000E-04 7.000E-04 1.500E-03 4.000E-04 ND ND ND ND ND ND ND ND ND ND ND ND ND	3.000E-04 4.650E-02 5.640E-02 8.000E-04 1.020E-02 0.000E+00 1.400E-03 1.400E-03 0.000E+00 3.500E-03	0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323	3.218E-04 4.986E-02 6.050E-02 8.581E-04 1.094E-02 ND 1.073E-03 1.502E-03 ND ND ND ND	34,471 34,471 34,471 34,471 34,471 34,471 34,471 34,471 34,471 34,471	6.925E-07 1.073E-04 1.302E-04		
90 28 28 28 28 28 28 28 28 28 28 29 29 29 29 29 29 29 29 29 29 29 29 29	3.400E-03 4.660E-02 5.710E-02 2.300E-03 1.020E-04 4.000E-03 1.700E-03 7.000E-03 7.000E-03 7.000E-03 8.500E-04 3.500E-04 5.000E-04	3.100E-03 1.000E-04 7.000E-04 1.500E-03 ND ND ND ND ND ND ND ND ND ND ND ND ND	3.000E-04 4.650E-02 5.640E-02 8.000E-04 1.020E-02 1.000E+00 1.000E-03 1.400E-03 0.000E+00 3.500E-03	0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323	3.218E-04 4.988E-02 6.050E-02 8.581E-04 1.094E-02 ND ND 1.673E-03 1.502E-03 ND ND ND ND	34,471 34,471 34,471 34,471 34,471 34,471 34,471 34,471 34,471	6.925E-07 1.073E-04 1.302E-04		
e 28 28 28 28 28 28 28 28 28 28 28 28 28	1.000E-03 1.000E-03 1.000E-03 1.000E-03 1.000E-03 1.000E-03 1.000E-03 1.000E-03 1.000E-04 2.000E-04 3.500E-04 5.000E-04	1.000E-04 7.000E-04 1.500E-03 1.500E-04 ND ND ND ND ND ND ND ND ND ND ND ND ND	4.650E-02 5.640E-02 8.000E-04 1.020E-02 1.000E+00 1.400E-03 0.000E+00 3.500E-03	0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323	4.988E-02 6.050E-02 8.581E-04 1.094E-02 ND 1.073E-03 1.502E-03 1.502E-03 ND ND ND ND	34,471 34,471 34,471 34,471 34,471 34,471 34,471 34,471 34,471	1.302E-04	6	2 308E-07
26 44 44 45 46 58 56 56 56 56 56 70 70 70 70 70 70 70 70 88 88 88 88 88 88 88 88 88 88 88 88 88	5.710E-02 2.300E-03 1.000E-04 1.000E-03 1.700E-03 1.400E-03 7.000E-04 3.500E-04 3.500E-04 5.000E-04	7.000E-04 1.500E-03 4.000E-04 ND ND ND 7.000E-04 ND ND ND ND ND ND ND ND ND ND ND ND ND	5.640E-02 8.000E-04 1.020E-02 1.000E+00 1.000E-03 1.700E-03 0.000E+00 3.500E-03	0.9923 0.9923 0.9923 0.9923 0.9923 0.9923 0.9923 0.9923 0.9923 0.9923 0.9923	6.050E-02 8.581E-04 1.094E-02 ND 1.073E-03 1.502E-03 ND ND ND ND	34,471 34,471 34,471 34,471 34,471 34,471 34,471	1.302E-04	9 6	3.578E-05
e 58 56 56 56 56 56 56 56 56 56 56 56 56 56	2.300E-03 1.020E-02 4.000E-04 1.000E-03 1.700E-03 7.000E-04 3.500E-03 3.500E-04 5.000E-04 5.000E-04	1,500E-03 ND ND N	8.000E-04 1.020E-02 0.000E+00 1.000E-03 1.700E-03 0.000E+00 3.500E-03 3.00E-03	0.9923 0.9923 0.9923 0.9923 0.9923 0.9923 0.9923 0.9923 0.9923 0.9923	8.581E-04 1.094E-02 ND 1.073E-03 1.502E-03 ND ND	34,471 34,471 34,471 34,471 34,471 34,471 34,471		8	4,340E-05
diente 54 42 58 58 58 58 59 59 59 59 59 59 59 59 59 59 59 59 59	1.020E-02 4.000E-03 1.000E-03 1.700E-03 7.000E-04 3.500E-03 ND ND ND ND 3.000E-04 5.000E-04	4.000E-04 ND ND ND 7.000E-04 ND ND ND ND ND ND ND ND ND ND ND ND ND	1,020E-02 0,000E+00 1,000E-03 1,700E-03 1,400E-03 0,000E+00 3,500E-03	0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323	1.094E-02 ND ND 1.073E-03 1.823E-03 1.502E-03 ND ND	34,471 34,471 34,471 34,471 34,471 34,471	1.847E-06	3	6.155E-07
56 56 56 58 58 58 58 56 70 70 70 70 70 70 70 70 86 88 88	1.000E-04 1.000E-03 1.000E-03 1.400E-04 7.000E-04 3.500E-03 ND ND 3.000E-04 5.000E-04	4.000E-04 ND ND ND 7.000E-04 ND ND ND ND ND ND ND ND ND ND ND ND ND	0.000E+00 1.000E-03 1.700E-03 1.400E-03 0.000E+00 3.500E-03 N N	0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323	ND 1.073E-03 1.823E-03 1.502E-03 ND ND	34,471 34,471 34,471 34,471 34,471 34,471	2.354E-05	3	7.848E-06
56 54 54 58 58 58 56 70 70 70 70 70 70 70 70 86 88 68 68 86 86 86 86 86 86 86 86 86	1.000E-03 1.700E-03 1.400E-04 7.000E-04 3.500E-03 ND 3.000E-04 5.000E-04	ND ND ND ND ND ND ND ND ND ND ND ND ND N	1.000E-03 1.700E-03 1.400E-03 0.000E+00 3.500E-03 N N	0.9323 0.9323 0.9323 0.9323 0.9323 0.9323 0.9323	1.073E-03 1.823E-03 1.502E-03 ND 3.754E-03 ND	34,471 34,471 34,471 34,471 34,471	QN	3	QN
6 56 58 58 58 58 58 58 58 58 58 58 58 58 58	1,700E-03 1,400E-03 7,000E-04 3,500E-03 0,000E-04 5,000E-04	ND ND 7.000E-04 ND ND ND ND ND ND ND ND ND	1.700E-03 1.400E-03 0.000E+00 3.500E-03 ND	0.9323 0.9323 0.9323 0.9323 0.9323 0.9323	1.823E-03 1.502E-03 ND 3.754E-03 ND	34,471 34,471 34,471 34,471	2.308E-06	ရ	7.694E-07
6 54 56 56 56 56 56 56 56 56 56 56 56 56 56	1.400E-03 7.000E-04 3.500E-04 3.500E-04 5.000E-04	7.000E-04 ND ND N	1.400E-03 0.000E+00 3.500E-03 ND	0.9323 0.9323 0.9323 0.9323 0.9323	1.502E-03 ND 3.754E-03 ND	34,471	3.924E-06	3	1.308E-06
6 58 56 56 56 56 56 56 56 56 56 56 56 56 56	3.000E-04 3.000E-04 5.000E-04 5.000E-04	V.000E-04 ND ND ND ND 4.000E-04	3.500E-03 ND	0.9323 0.9323 0.9323 0.9323 0.9323	3.754E-03 ND	34,471	3.232E-06	8	1.077E-06
56 56 56 70 70 70 70 70 70 70 70 86 86 86 86 86 86 86 88 86 88 88 88 88	3.500E-03 3.000E-04 5.000E-04 5.000E-04	ND ND ND 4.000E-04	3.500E-03 ND ND	0.9323 0.9323 0.9323 0.9323	3.754E-03 ND	34.47	ON COL	5	ON
56 70 70 70 70 70 70 70 70 70 70 86 86 88 86 88 86 88 86 88	3.000E-04 2.000E-04 5.000E-04	ND ND 4.000E-04	2 000E-04	0.9323	2	34 471	8.0/9E-06	ກີ	Z.693E-U6
70 70 70 70 70 70 70 70 70 86 88 86	2.000E-04 5.000E-04	ND 4.000E-04		0.9323	3 218E-04	34 471	6 925E-07		2 308F-07
72 70 70 72 68 68 70 70 70 70 86 88 86 86 86 86	5.000E-04	4.000E-04	2.000E-04	0.9323	2.145E-04	34.471	4.616E-07	3	1.539E-07
70 72 72 68 68 70 70 70 70 86 88 88 84 84 84 84 84 86 86 86 86 86 86 86 86 86 86 86 86 86			1.000E-04	2001	1.073E-04	34,471	2.308E-07	3	7.694E-08
70 72 68 70 70 70 70 86 68 68 68 84 84 84 86	QN	2	9	0.9323	QN	34,471	Q	8	QN
72 68 68 70 70 70 70 70 70 68 68 68 68 68 68 68 68 68 68 68 68 68	QN	QN	QN	0.9323	DN	34,471	QN	3	QN
68 70 70 70 70 86 88 84 86 98 98 98 86 86	5.000E-04	3.000E-04	2.000E-04	0.9323	2.145E-04	34,471	4.616E-07	3	1.539E-07
70 70 70 70 86 84 87 98 98 98 96	Q	1.000E-04	Q	0.9323	Q	34,471	Q	3	Q
70 70 86 68 68 64 70 70 86	2	2	Q	0.9323	9	34,471	2	ေ	2
96 68 68 84 70 70 86 86 86 86	2 5	2	Q S	0.9323	Q S	34,471	Q.	8	2
86 68 84 84 86 86 86 86 86	ON S	2 2	ON O	0.9323	ON S	34,471	CN S	8	ON L
84 70 70 86 94 86	2.000E-04	2 2	2.000E-04	0.9323	Z.145E-04	34,47	4.5 I DE-U/	5	1.539E-07
70 86 87 87 86 86	2 2	202	2 2	0.9323	20	34,471	Q	9 69	200
96 94 86 86	QN	Q	9	0.9323	QN	34,471	Q	3	QN
3ne 84 86 86	QN	QN	QN	0.9323	QN	34,471	QN	3	ON
86	QN	QN	QN	0.9323	QN	34,471	QN	3	QN
98	2.000E-04	1.000E-04	1.000E-04	0.9323	1.073E-04	34,471	2.308E-07	ေ	7.694E-08
, ,	2	2	Q	0.9323	2	34,471	2		2
-pentene 84	ND SOOT	2 2	1 000E	0.9323	ND 4 04	34,471	ND SOC C	2	7 604E 08
1-1-1-6/EIIG 04 0.025	2 000E-04	2 000F-04	0.000E+00	0.9323	ND ON	34.471	ND	9 67	ND CN
exene 84	2	Q	S	0.9323	S	34,471	Ð	3	9
ene 84	2	9	QN	0.9323	Q	34,471	Q	3	2
84	S	Q	QV	0.9323	ON	34,471	S	3	2
84	1.000E-04	1.000E-04	0.000E+00	0.9323	ON	34,471	ON	3	QN
thylpentane 100	2.000E-04	QN	2.000E-04	0.9323	2.145E-04	34,471	4.616E-07		1.539E-07
78	1.230E-02	6.000E-04	1.170E-02	0.9323	1.255E-02	34,471	2.701E-05	8	9.002E-06
84	2 2	2	2 9	0.9323	2 2	34,471	2 2	2	2 5
2-2-Metry/inexane		2 2	2 2	0.9323	22	34,471	22	2 0	2 2
000	22.2	Q C	2 2	0.9323	2 2	04,471	2 2	3 6	2 2
	ON.		2	0.9323	2	04,47	S	آ ا	2

TABLE A-9. AEC - VOC RUN NO. 2 DATA FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

		Average	Average	Background -	Background	Dilution	Corrected		Sample Total		Corrected
Compound (a)	Motecular Weight	Concentration - Run 2, ppbv	Concentration - Run 2, mg/m³	Concentration, mg/m³	Concentration - Run 2, mg/m³	Correction Factor (b), %	Concentration - Run 2, mg/m³	Initial Plume Volume, ft³	Material - Run 2, lb	Number of Items	Factor - Run 2, lb/ftem
2,2,4-Trimethylpentane	114	0.169	8.000E-04	5.000E-04	3.000E-04	0.9323	3.218E-04	34,471	6.925E-07	3	2.308E-07
n-Heptane	100	ON	QN	QN	QN	0.9323	QV	34,471	Ð	3	QN
2,4,4-Trimethyl-1-pentene	112	QN	QN	QN	QN	0.9323	ON	34,471	QN	3	QN
Methylcyclohexane	86	QN	QN	ON	QN	0.9323	ND	34,471	QN	3	ND
2,4,4-Trimethyl-2-pentene	112	QN	ON	ON	QN	0.9323	ND	34,471	QN	3	ND
2,5-Dimethythexane	114	0.021	1.000E-04	1.000E-04	0.000E+00	0.9323	ND	34,471	QN	3	ND
2,4-Dimethylhexane	114	0.042	2.000E-04	1.000E-04	1.000E-04	0.9323	1.073E-04	34,471	2.308E-07	3	7.694E-08
2,3,4-Trimethylpentane	114	0.042	2.000E-04	QN	2.000E-04	0.9323	2.145E-04	34,471	4.616E-07	3	1.539E-07
Toluene	92	0.784	3.000E-03	7.000E-04	2.300E-03	0.9323	2.467E-03	34,471	5.309E-06	8	1.770É-06
2,3-Dimethylhexane	114	QN	QN	QN	QN	0.9323	ON	34,471	Q	3	g
2-Methylheptane	111	DN	QN	QN	QN	0.9323	ON	34,471	QN	3	QN
3-Ethylhexane	114	ON	QN	QN	QN	0.9323	ND	34,471	QN	3	QN
2,2-Dimethylheptane	128	ND	QN	QN	QN	0.9323	QN	34,471	QN	ဗ	9
2,2,4-Trimethylhexane	128	0.038	2.000E-04	QN	2.000E-04	0.9323	2.145E-04	34,471	4.616E-07	3	1.539E-07
n-Octane	114	0.021	1.000E-04	QN	1.000E-04	0.9323	1.073E-04	34,471	2.308E-07	3	7.694E-08
Ethylcyclohexane	112	ND	QN	QN	QN	0.9323	QN	34,471	QN	3	Q
Ethylbenzene	160	0.075	5.000E-04	1.000E-04	4.000E-04	0.9323	4.290E-04	34,471	9.233E-07	က	3.078E-07
m-Xylene & p-Xylene	106	0.386	1.700E-03	8.000E-04	9.000E-04	0.9323	9.654E-04	34,471	2.077E-06	3	6.925E-07
Styrene	104	0.162	7.000E-04	QN	7.000E-04	0.9323	7.508E-04	34,471	1.616E-06	3	5.386E-07
o-Xylene	106	0.159	7.000E-04	3.000E-04	4.000E-04	0.9323	4.290E-04	34,471	9.233E-07	3	3.078E-07
n-Nonane	128	0.075	4.000E-04	QN	4.000E-04	0.9323	4.290E-04	34,471	9.233E-07	3	3.078E-07
i-Propylbenzene	120	QN	Q	Q	Q	0.9323	Q.	34,471	ON	3	QN
n-Propylbenzene	120	0.020	1.000E-04	1.000E-04	0.000E+00	0.9323	Q	34,471	2	3	QV
p-Ethyitoluene	120	0.100	5.000E-04	3.000E-04	2.000E-04	0.9323	2.145E-04	34,471	4.616E-07	3	1.539E-07
m-Ethyltoluene	150	090.0	3.000E-04	1.000E-04	2.000E-04	0.9323	2.145E-04	34,471	4.616E-07	3	1.539E-07
1,3,5- I rimethylbenzene	120	0.080	4.000E-04	2.000E-04	2.000E-04	0.9323	2.145E-04	34,471	4.616E-07	3	1.539E-07
o-Ethyltoluene	120	0.040	2.000E-04	QN	2.000E-04	0.9323	2.145E-04	34,471	4.616E-07	3	1.539E-07
1,2,4-Trimethylbenzene & sec-Butylbenzene	120	0.260	1.300E-03	6.000E-04	7.000E-04	0.9323	7.508E-04	34.471	1.616E-06	m	5.386F-07
n-Decane	142	QN	QN	QN	QV.	0.9323	2	34.471	Q	8	2
alpha-Pinene	136	QN	QN	QN	ON	0.9323	QN	34,471	Q	3	Q
beta-Pinene	136	QN	QN	ON	ON	0.9323	ND	34,471	QN	3	Q
delta 3-Carene	136	QN	QN	ON	ON	0.9323	ND	34,471	QN	3	QN
d-Limonene	136	Q	QN	QN	Q	0.9323	2	34,471	QV	3	ON
MTBE	88	Q !	Q	Q	Q	0.9323	2	34,471	QV	3	Q
E I BE Dishloradiff informathens	102	ON O	QN O	ON JOSE	ON LOGI.	0.9323	2	34,471	2	8	2
Mathylopida	22	0.100	9.203E-04	1.230E-U3	-4.33ZE-04	0.9323		34,471	2 5	7)	2
Dichlorotetrafluoroethane	171	S	2 2	2 2	2 2	0.9323	2 2	34,471	2 2	n (2 2
Chloroethene	83	QN	Q.	2	Q	0.9323	200	34.471	Q	3	20
1,3-Butadiene	54	0.634	1.424E-03	QN	1.424E-03	0.9323	1.527E-03	34,471	3.287E-06	3	1.096E-06
Methylbromide	95	ND	QN	QN	Q	0.9323	QN	34,471	Q	3	Q
Ethylchloride	64.5	QN	QN	QN	QN	0.9323	ND	34,471	QN	3	QN
Trichloromonofluoromethane	137	0.448	2.554E-03	2.562E-03	-8.631E-06	0.9323	QN	34,471	QN	3	Q
Vinylidenechloride	97	Q	QV	9	Q	0.9323	ND ND	34,471	QN	3	ND
Methylenechlonde	85	1.933	6.835E-03	2.704E-04	6.564E-03	0.9323	7.041E-03	34,471	1.515E-05	8	5.051E-06
Allylchloride	76.5	ON COL	ON S	ON	ON LIGHT	0.9323	ON Contract	34,471	QN L	8	Q
1,1,2-1 richloro-1,2,2-trinuoroetrane	88 8	clr.0	8.965E-04	8.515E-04	4.495E-05	0.9323	4.821E-05	34 471	1.037E-07	8	3.458E-08
I, I-Dicinologuiane	22	J.	ממ	ON.	ON O	0.9323	ON	34,471	Q.	ה מ	Q

TABLE A-9. AEC - VOC RUN NO. 2 DATA FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

	Molecular	Average Concentration -	Average Concentration -	Background - Concentration,	Background Corrected Concentration	Dilution	Corrected Concentration -	inital Plume	Sample Total Material - Run	Number of	Corrected Emission Factor - Run
Compound (a)	Weight	Run 2, ppbv	Run 2, mg/m	mgm	Hun 2, mg/m	Factor (b), %	Hun 2, mg/m	Volume, ff	α ζ	Rems	2, ID/Item
1,2-Ulchioroemene	9/	ON CN		2 2	22	0.9323	22	34,471	2 2	n 6	2 2
1.2-Dichloroethane	66	QN	SS	9	GN CN	0.9323	QN C	34.471	2 2	0 60	Q Q
Methylchloroform	133	0.066	3.668E-04	3.608E-04	6.043E-06	0.9323	6.482E-06	34,471	1.395E-08	8	4.650E-09
Benzene	78	3.856	1.251E-02	6.103E-04	1.190E-02	0.9323	1.276E-02	34,471	2.747E-05	3	9.156E-06
Carbontetrachloride	154	0.125	8.006E-04	7.468E-04	5.381E-05	0.9323	5.771E-05	34,471	1.242E-07	3	4.140E-08
1,2-Dichloropropane	113	QN	QN	QN	QN	0.9323	QN	34,471	QV	3	QN
Trichloroethylene	133	QN	QN	Q	QN	0.9323	ON	34,471	Q	3	S.
cis 1,3-Dichloro-1-propene	111	QN	Q	Q	QN	0.9323	QN	34,471	Q	3	Q
trans 1,3-Dichloro-1-propene	111	QN	QN	QN	GN	0.9323	ND	34,471	QN	3	QV
1,1,2-Trichloroethane	133	QN	S	g	Q	0.9323	S	34,471	Ð	3	S
Toluene	92	0.797	3.051E-03	7.120E-04	2.339E-03	0.9323	2.509E-03	34,471	5.400E-06	3	1.800E-06
1,2-Dibromoethane	188	QN	QN	QN	QN	0.9323	QN	34,471	QN	3	QN
Perchloroethylene	166	QN	Q	QN	Q	0.9323	Q	34,471	2	3	2
Chlorobenzene	113	QN	Ð	Q	S	0.9323	Q	34,471	Q	3	Q.
Ethylbenzene	160	0.115	7.676E-04	QN	7.676E-04	0.9323	8.234E-04	34,471	1.772E-06	3	5.906E-07
m&p-Xylene	106	0.363	1.601E-03	6.957E-04	9.048E-04	0.9323	9.705E-04	34,471	2.089E-06	3	6.962E-07
Styrene	104	0.091	3.956E-04	QN	3.956E-04	0.9323	4.243E-04	34,471	9.131E-07	3	3.044E-07
1,1,2,2-Tetrachloroethane	168	QN	QN	QN	QN	0.9323	ND	34,471	QN	3	QN
o-Xylene	106	0.161	7.120E-04	3.051E-04	4.068E-04	0.9323	4.364E-04	34,471	9.391E-07	3	3.130E-07
p-Ethyltoluene	120	0.097	4.837E-04	Q	4.837E-04	0.9323	5.188E-04	34,471	1.116E-06	3	3.721E-07
1,3,5-Trimethylbenzene	120	0.062	3.074E-04	Q	3.074E-04	0.9323	3.297E-04	34,471	7.094E-07	3	2.365E-07
1,2,4-Trimethylbenzene	120	0.160	8.005E-04	5.753E-04	2.253E-04	0.9323	2.416E-04	34,471	5.199E-07	3	1.733E-07
Benzylchloride	127	QN	Q	Q	ND	0.9323	ND	34,471	Q	3	Q
m-Dichlorobenzene	147	2	Q	Q	2	0.9323	2	34,471	2	3	Q
p-Dichlorobenzene	. 147	QN	2	Q	QN	0.9323	Q	34,471	2	3	2
o-Dichlorobenzene	147	Q	Q	Q	ND	0.9323	ND.	34,471	2	8	2
1,2,4-Trichlorobenzene	181	2	Q	QV	NO.	0.9323	2	34,471	Q	3	Q
Hexachlorobutadiene	261	Q	2	Q	QN	0.9323	Q	34,471	2	3	2
Phenylacetylene	102	0.218	9.232E-04	Q	9.232E-04	0.9323	9.903E-04	34,471	2.131E-06	8	7.103E-07
Indane	817	2 2	2 2	2		0.9323	2	34,471		8	2
2.3-Dihydro-1-methyl-1H-indene	132	200	2 2	2 2	22	0.9323	22	34,471	22		2 2
Naphthalene	128	0.410	2.183E-03	5.018E-04	1.681E-03	0.9323	1.803E-03	34.471	3.880E-06	<u>س</u>	1.293E-06
2-Methylnaphthalene	142	QN	9	QN	QN	0.9323	Q	34,471	Q	8	S
1-Methylnaphthalene	142	QN ·	QN	S	Q	0.9323	9	34,471	9	3	9
Cyanogen	52	QN	QN	ND	ND	0.9323	QN	34,471	QN	3	QV
Methylnitrite	61	0.286	7.248E-04	Q	7.248E-04	0.9323	7.774E-04	34,471	1.673E-06	3	5.577E-07
Acetonitrile	41	0.217	3.699E-04	QN	3.699E-04	0.9323	3.968E-04	34,471	8.538E-07	3	2.846E-07
Acrylonitrile	23	0.086		Q	1.886E-04	0.9323	2.023E-04	34,471	4.353E-07	3	1.451E-07
Nitromethane	9	0.708	1.797E-03	QN	1.797E-03	0.9323	1.927E-03	34,471	4.148E-06	9	1.383E-06
Propanenitrile	55	2	Q	2	Q	0.9323	Q	34,471	9	3	2
2-Methylpropanenitrile	69	2	9	Q	Q	0.9323	Q	34,471	Q	3	Q
Pentanenitrile	83	2	Q	QN	ND	0.9323	2	34,471	QN	င	2
Hexanenitrile	97	QV.	Q	Q	9	0.9323	Q	34,471	Q	3	2
Benzonitrie	103	0.060	2.555E-04	2	2.555E-04	0.9323	2.740E-04	34,471	5.897E-07	8	1.966E-07
Accelor	95	0.055	4.000/ 0.04	2 2	3.05/E-04	0.9323	3.230E-04	34,471	7.080E-07	2	2.360E-U/
Acident	8 2	1.044	4.230E-03	ON L	4.290E-U3	0.9323	4.508E-03	34,471	9.91/E-U6	,	3.306E-06
Acetone	00	0.031	1.559E-02	5.477E-03	1.0115-02	0.9323	1.085E-02	34,471	2.334E-05	2	7.780E-UD

TABLE A-9. AEC - VOC RUN NO. 2 DATA FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

		-			Background						Corrected
	-	Average	Average	Background -	Corrected	Dilution	Corrected		Sample Total		Emission
Compound (a)	Molecular Weight	Concentration - Run 2, ppbv	Concentration - Run 2, mg/m³	Concentration, mg/m³	Concentration - Run 2, mg/m²	Correction Factor (b), %	Concentration - Run 2, mg/m³	Initial Plume Volume, ft³	Material - Run 2, lb	Number of tems	Factor - Run 2, lb/item
1-Hydroxy-2-propanone	74	QN	QN	QN	ON.	0.9323	QN	34.471	QN	3	Q
Furan	89	0.215	6.072E-04	Q	6.072E-04	0.9323	6.513E-04	34,471	1.401E-06	8	4.672E-07
2-Propanol	09	QN	QN	S	Q	0.9323	QV	34,471	Q	3	QN
2-Methylpropanal	74	QN	QN	QN	ND	0.9323	QN	34,471	QN	3	ND
1-Propanol	09	ND	QN	QN	ND	0.9323	QŅ	34,471	QN	3	QN
Methacrolein	02	0.070	2.032E-04	ON	2.032E-04	0.9323	2.179E-04	34,471	4.689E-07	3	1.563E-07
Methyl-vinyl Ketone	20	0.192	5.590E-04	QN	5.590E-04	0.9323	5.996E-04	34,471	1.290E-06	3	4.301E-07
MTBE	88	QN	QN	QN	ND	0.9323	QN	34,471	QN	3	QN
2,3-Butanedione	98	Q	QN	Q	ND	0.9323	QN	34,471	ON .	3	QN
Butanal	72	0.111	3.321E-04	2.155E-04	1.167E-04	0.9323	1.251E-04	34,471	2.693E-07	3	8.977E-08
2-Butanone	72	0.910	2.727E-03	8.793E-04	1.848E-03	0.9323	1.982E-03	34,471	4.265E-06	3	1.422E-06
2-Methyl-1,3-dioxolane	88	QN	QN	NO	ND	0.9323	ON	34,471	QN	3	QN
2-Methylfuran	82	ND	QN	QN	ND	0.9323	QN	34,471	QN	3	QN
Tetrahydrofuran	72	ND	ON	QN	ND	0.9323	QN	34,471	QN	3	Q
trans-2-Butenal	70	0.201	5.850E-04	ND	5.850E-04	0.9323	6.275E-04	34,471	1.350E-06	3	4.501E-07
Acetic Acid	09	0.861	2.149E-03	1.200E-03	9.486E-04	0.9323	1.017E-03	34,471	2.189E-06	3	7.298E-07
1-Butanol	74	ND	QN	NO	ND	0.9323	QN	34,471	QN	3	QN
2-Pentanone	98	0.139	4.984E-04	QN	4.984E-04	0.9323	5.346E-04	34,471	1.150E-06	3	3.835E-07
Pentanal	98	0.338	1.208E-03	1.116E-03	9.191E-05	0.9323	9.859E-05	34,471	2.122E-07	3	7.072E-08
1,4-Dioxane	88	QN	QN	QN	ND	0.9323	QN	34,471	QN	3	QN
Methyl Methacrylate	100	QN	ON	ND	ND	0.9323	QN	34,471	QN	3	QN
Cyclopentanone	84	QN	ON	QN	ND	0.9323	QN	34,471	QN	3	QN
Hexanal	100	0.143	5.956E-04	7.794E-04	-1.838E-04	0.9323	QN	34,471	QN	3	Q
2-Furaldehyde	96	0.576	2.300E-03	ND	2.300E-03	0.9323	2.468E-03	34,471	5.310E-06	3	1.770E-06
Cyclohexanone	98	Q	Q	Q.	ON	0.9323	QN	34,471	QN	3	QN
Heptanal	114	0.148	7.036E-04	7.015E-04	2.163E-06	0.9323	2.320E-06	34,471	4.994E-09	3	1.665E-09
2-Butoxyethanol	118	Q	Q	QN	QN	0.9323	Q	34,471	Q	3	2
Benzaldehyde	106	0.516	2.276E-03	8.636E-04	1,413E-03	0.9323	1.515E-03	34,471	3.260E-06	3	1.087E-06
6-Methyl-5-hepten-2-one	126	Q	QN	Q	Q	0.9323	Q	34,471	QN	3	2
Octanal	128	0.237	1.262E-03	9.545E-04	3.078E-04	0.9323	3.301E-04	34,471	7.104E-07	3	2.368E-07
Benzofuran	118	0.070	3.422E-04	Q	3.422E-04	0.9323	3.670E-04	34,471	7.898E-07	3	2.633E-07
2-Ethyl-1-hexanol	120	Q	QN	Q	ND	0.9323	QN	34,471	ND	3	Q
Acetophonone	120	0.061	3.033E-04	NO	3.033E-04	0.9323	3.253E-04	34,471	7.001E-07	3	2.334E-07
Nonanal	142	0.239	1.414E-03	1.368E-03	4.537E-05	0.9323	4.867E-05	34,471	1.047E-07	3	3.491E-08
Decanal	156	0.258	1.672E-03	7.454E-04	9.266E-04	0.9323	9.939E-04	34,471	2.139E-06	3	7.129E-07
Carbonyl Sulfide	8	0.167	4.156E-04	2.178E-04	1.978E-04	0.9323	2.121E-04	34,471	4.565E-07	3	1.522E-07
Carbon Disulfide	9,2	21.875	6.916E-02	4.467E-04	6.871E-02	0.9323	7.370E-02	34,471	1.586E-04	3	5.287E-05
Thiophene	84	0.138	4.824E-04	Q	4.824E-04	0.9323	5.174E-04	34,471	1.114E-06	3	3.712E-07
Dimetnyldisultide	94	ON.	QN	QN	QN	0.9323	QN	34,471	QN	3	Q

a Compounds in bold represent duplicate values.

TABLE A-10. AEC - SVOC DATA EVALUATION FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

Compound	Average Concentration - Run 1, molm ³	Average Concentration - Run 2. mom ²	Average Concentration - Run 1-2, mo/m³	Average Concentration - Run 1-2, mg/m³	Background - Concentration, mg/m²	Detection Limit - Concentration, mg/m³	Detection Limit - Concentration, mg/m³	Background Evaluation Criteria	Manimum Detection Limit Evaluation Criteria	Background Evaluation Notes	Detection Limit Evaluation Notes
N-Nitrosodimethylamine	CZ	QN	Q	2	QN	3.591E-04	3.591E-04	QV.	2	1	ıı
Pyridine	2	S	9	Q	QN	1.053E-03	1.053E-03	QN	QN	ч	L
-Picoline	Q	QN	QV	QV	QN	1.094E-03	1.094E-03	QN	Q	Н	ட
Methyl methanesulfonate	QN	S	QN	QN	QN	4.138E-04	4.138E-04	Q	9	ш	L
N-Nitrosomethylethylamine	QV	QN	QN	QN	QN	8.214E-04	8.214E-04	QN	Q	ш	ш
N-Nitrosodiethylamine	QN	QN	ND	ON	QN	8.771E-04	8.771E-04	QN	Q	ш	۳
Ethyl methanesulfonate	QN	QN	ON	ON	QN	4.035E-04	4.035E-04	QN	g	L.	u
Phenol	QN	Q	QN	QN	QN	2.580E-04	2.580E-04	S	9	u 1	ш
Aniline	QN	Q	QN	Q	Q	4.117E-04	4.117E-04	2	9	ц.	ш (
bis(2-Chloroethyl)ether	QV	QN	Q	2	Q	3.220E-04	3.220E-04	Q !			
Pentachloroethane	Ş	2	2	2	2	7.440E-04	7.440E-04	Q.	2		L
Chlorophenol	2	2	Q.	2	Q	1.641E-04	1.641E-04	2 2	2 2	_	
,3-Dichlorobenzene	2	2	Q :	2	2	3.1685-04	3.168E-04	2 2	2 2		u
,4-Dichlorobenzene	2 2	2 2	2 5	2 2	Z	7 1025-04	7 1025-04	2 2	2 5	. 4	_ u
Benzyl alcohol	2 2	22	2	2 2	2 2	F 780E-04	5 780F.04	2 5	2 2		
Metnylphenol	2	QV C		2 2		4 802E 04	A 602E-04	S	Ę		L
2-Dichlorobenzene	2 2	2 2	2 2	2 2	2 2	3 BBOE-04	3 BROE-04	S	2		L
DIS(2-Criticional proprior) en rei	2 2	2 52	2 5	2 5	S	4 OB6F-04	4 086F-04	QN	2	L	L.
-Methylphenol/3-Methylphenol	g G	S	S	Q	2	4.891E-04	4.891E-04	Q.	₽	ш	ш
N-Nitroso-di-n-propylamine	Q.	2	2	2	2	2.900E-04	2.900E-04	QN	Q	u	ц.
Acetophenone	4.915E-04	7.980E-04	7.518E-04	6.804E-04	1.897E-04	3.044E-04	3.044E-04	3.59	2.24	၁	၁
N-Nitrosomorpholine	QN	QN	QN	ND	QN	9.277E-04	9.277E-04	QN	QN	4	F
-Nitrosopyrrolidine	QN.	QN	QN	QN	ON	1.228E-03	1.228E-03	QN	2	ц	۳
Hexachloroethane	QN	QN	QN	QN	QN	5.098E-04	5.098E-04	Q	Q	ш	ш
iitrobenzene	Q.	QN	Q	ON.	ND	9.194E-04	9.194E-04	QN	Q	ı	ш
V-Nitrosopiperidine	QN	QN	ON	QN	QN	7.523E-04	7.523E-04	QN	2	ш	ı.
sophorone	Q	Q	QV	Q	QN	2.208E-04	2.208E-04	2	2		٠,
2,4-Dimethylphenol	Q	QV	Q	Q	2	3.478E-04	3.478E-04	Q	2		<u>.</u>
-Nitrophenol	Q	2	S	Q	Q	5.531E-04	5.531E-04	Q.	2		-
is(2-Chloroethoxy)methane	2	2	2	2 9	2 5	4.035E-04	9 7775.00		2 2		L
Benzoic acid	2 2	ON C	200	2 2	2 2	5.777E-02	5.77.E-02 5.056E-04	2 5	2 5	. [4	. ц
7.4-Dicilioloprierioi	2 5	2 5	2 5	2 2	2 2	3 643F-04	3.643F-04	Q	2	L	L
, c, 4-1 lictiloroughzene	8 663F-04	1 572E-03	1 200F-03	1 146F-03	SZ	4 613F-04	4.613E-04	10.00	2.48	A	0
n-Chloroaniine	QN	QN	QN	2	S	3.323E-04	3.323E-04	S	Q	4	ı
6-Dichlorophenol	2	Q	2	2	Q	3.550E-04	3.550E-04	Q	QN	ц.	ц.
Hexachloropropene	2	Q	QN	Q	S	5.830E-04	5.830E-04	QN	QN	F	F
Hexachlorobutadiene	Q	Q	Q	g	S	5.263E-04	5.263E-04	QN	QV	F	F
Dimethylphenethylamine	QN	QV	QN	QV	QN	2.105E-02	2.105E-02	QN	Q	ц.	u
N-Nitroso-di-n-butylamine	QŅ	QΝ	QN	QN	QN	3.859E-04	3.859E-04	QN	Ð	u.	ı.
4-Chloro-3-methylphenol	QN	QN	QN	QN	QN	5.851E-04	5.851E-04	Q	Ð	L.	ш
atrole	QN	QN	DN	QN	QN	7.337E-04	7.337E-04	Q	Q	u.	٤
-Methylnaphthalene	QN	QN	3.538E-04	3.538E-04	QN	3.705E-04	3.705E-04	10.00	96.0	Α I	٤.
,2,4,5-Tetrachlorobenzene	Q	QN	Q	Q	QV	5.634E-04	5.634E-04	Q	9	L I	ш
Hexachlorocyclopentadiene	Q	Q	Q	2	Q	1.145E-02	1.145E-02	2 2	2		-
2,4,6-Trichlorophenol	2	2	2	2 2	2 2	6.5115-04	6.511E-04	2 2	2 2	4	u
,4,5-1 richlorophenol	2	2	2 9	2	2 5	5.53 15-04	3.33 IT-04	2 2	2 2		_ u
o o o o o o o o o o o o o o o o o o o											

TABLE A-10. AEC - SVOC DATA EVALUATION FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

	Average	Average	Average	Average	Average Background -	Average Maximum Detection Limit -	Average Minimum Detection Limit -	Background	Minimum Detection Limit	Background	Minimum Detection Limit
Сотроила	Concentration - Run 1, mg/m³	Concentration - Run 2, mg/m³	Concentration - Run 1-2, mg/m³	Concentration - Run 1-2, mg/m³	Concentration, mg/m³	Concentration, mg/m³	Concentration, mg/m³	Evaluation Criteria	Evaluation Criteria	Evaluation Notes	Evaluation Notes
2-Chloronaphthalene	QN	QN	QN	QN	Q	5.820E-04	5.820E-04	QN	QN	F	ш
2-Nitroaniline	QN	QN	ON	QN	ON	3.694E-04	3.694E-04	QN	QV	ч	Œ
1,4-Naphthoquinone	Q	Q.	Q	Q	Q	1.032E-03	1.032E-03	QN	QN	F	F
Umethylphthalate	Q	QV.	QV.	Q.	9	3.003E-04	3.003E-04	Q	2	١.	L.
1,3-Unitrobenzene	QV	ON C	2	ON.	Q S	8.637E-04	8.637E-04	2	2	u. I	L.
Z,b-Unitrotoluene	Q C	2	ON S	ON.	0	7.265E-04	7.265E-04	Q	2	<u>.</u>	L I
Acenaphinylene	2 2	2 2	2 2	2 2	2 2	3.374E-04	3.374E-04	2	2	4	щ
A.Nitoobood	2 2	2 2	25	2 2		9.0916-04	9.091E-04				
2.4-Dinitrophenol	5 5	2 2	ON CIN	2 2		3.168E-02	3.158E-02		2 2		
Acenaohthene	2 2	2 2	2 2	2 2	2 2	3.231E-02	3.231E-02	S S	2 2	L	L U
2,4-Dinitrotoluene	S.	2	Q	S	Q	4.592E-04	4 592F-04	GN	2 2	u	_ u
Dibenzofuran	QN	Q	QN	QN	Q	2.518E-04	2.518E-04	2	2	. u	L
Pentachlorobenzene	QN	ON	QN	QX	QN	6.955E-04	6.955E-04	QN	2	ш	u
1-Naphthylamine	QN	QN	QN	QN	g	1.816E-03	1.816E-03	QN	Q	L	Ш
2-Naphthylamine	QN	QN	QN	QN	QN	1.610E-03	1.610E-03	Q	Q	L	ட
2,3,4,6-Tetrachlorophenol	Q	ON	QN	QN	QN	7.368E-04	7.368E-04	QN	2	ш	<u></u>
Diethylphthalate	Q	QN	2.278E-04	2.278E-04	ON	2.683E-04	2.683E-04	10.00	0.85	A	ட
4-Chlorophenylphenyl ether	Q	QN	QN	QN	QN	2.920E-04	2.920E-04	QN	QN	F	Ł
Fluorene	Q	Q	Q	QN	Q	3.508E-04	3.508E-04	QN	QN	F	u
5-Nitro-o-toluidine	QN	Q	Q	Q	Q	3.746E-04	3.746E-04	Q	Q	±.	ц.
4-Nitroaniline	Q .	QN	Q :	Q	Q	7.997E-04	7.997E-04	Q	Q	щ	ч
4.5-Unitro-z-metnylphenol	QN.	Q	ON.	QN.	Q :	2.807E-02	2.807E-02	2	Q	щ	ш
Cym. Trinitobersene	2 2	2 2	2 2	2 2	2 2	3.797E-04	3.797E-04	2	Q.	L.	u i
Diallate	2 5	2 2	2	22	ON CA	1.290E-03	1.290E-03	2 2	2		
Phenacetin	S	C N	2 2	2 5	2 5	4.302E-04	4.302E-04	2 2	2 4		
4-Bromophenylphenyl ether	QV	2 2	GN	2 2	S	7.110F-04	7 110E-04	2 2	2 2	L	
Hexachlorobenzene	QN	GN	S	2	2 5	3 828E-04	3 828E-04	2 2	2 2	L	L
4-Aminobiphenyl	₽	2	2	2	GN	2.136F-03	2.020C-04	2 2	2 2	L	_
Pronamide	QN	QN	Q	QN	QN	2.652E-04	2.652E-04	Q	9	L	
Pentachlorophenol	QN	QN	QN	ŊŊ	QN	2.972E-02	2.972E-02	QN	QN	L	Ŀ
Pentachloronitrobenzene	Q	QN	Q	Q	Q	1.383E-03	1.383E-03	QN	QN	ш	ш
Phenanthrene	Q	Q	Q	ON	QN	6.295E-04	6.295E-04	QN	QN	F	F
Anthracene	2	ON :	2	9	Q	3.777E-04	3.777E-04	QN	QN	F	L.
O a buttinhthalate	ND A 424E 04	NO Poset on	ON S	ON O	QN	2.528E-04	2.528E-04	Q	Q	L.	u
4-Nitroguinoline-1-oxide	ND ON	3.500E-03	CN CN	Z.400E-03	2 2	1.754E-04	1.754E-04	00.02	13.73	۷.	۷
Methapyrilene	Q.	QV	9	QV	QN	2.136F-02	2.322L-02	2 2	2 5	L	L
Fluoranthene	Q	ON	Q	9	Q	3.725E-04	3.725E-04	2	Q	. 4	L
Benzidine	QN	QN	Q	QV	Q	1.383E-02	1.383E-02	Q	2		
Pyrene	QN	QN	QN	QN	QN	5.118E-04	5.118E-04	Q	Q	4	L
p-Dimethylaminoazobenzene	Q	QN	QN	ON	QN	3.797E-04	3.797E-04	QN	QN	4	L
Chlorobenzilate	2	Q	Q	2	Q	5.283E-04	5.283E-04	ON	QN	ь	ш
Kepone	Q	Q	Q	QN	QN	1.940E-02	1.940E-02	ON	QN	Ь	ш
Butyloenzylphthalate	3.036E-03	1.278E-03	1.028E-03	1.781E-03	Q	2.115E-04	2.115E-04	10.00	8.42	A	8
3,3-Uimethylbenzidine	2	QV.	2	Q	QN	2.043E-03	2.043E-03	QN	QN	4	ш
Z-Acetylaminofluorene	ON S	2	QN PO	ON	- 11	3.220E-04	3.220E-04	Q	QN	F	ш
3.3-Dichlorobenzidine	5.302E-03	2 2	7.584E-04	Z.335E-03	2.139E-02	1.259E-03	1.259E-03	0.11	1.86	u. l	٥
Benz(a)anthracene	22	2 2	2 2	2 2		3.45/E-04	3.45/E-04	2 2	2 2	ı.	1
			7	35) N	4.004E-04	4.0046-04	NC	J.	_	_

TABLE A-10. AEC - SVOC DATA EVALUATION FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

6.137E-04 ND ND ND ND ND ND ND ND ND ND ND ND ND	Compound	Average Concentration - Run 1, mg/m³	Average Concentration - Run 2, mg/m ³	Average Concentration - Run 1-2, mg/m³	Average Concentration - Run 1-2, mg/m³	Average Background - Concentration, mg/m²	Average Maximum Average Minimum Detection Limit - Concentration, concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³	Background Evaluation Criteria	Minimum Detection Limit Evaluation Criteria	Background Evaluation Notes	Minimum Detection Limit Evaluation Notes
atie 1.035E-03 ND 1.924E-04 6.137E-04 ND 3.220E-04 3.220E-04 10.00 Priz(a)antifracene ND ND ND ND 4.757E-04 4.757E-04 ND ND Infone (a) ND ND ND ND A.757E-04 4.757E-04 ND ND Infone (a) ND ND ND ND ND A.757E-04 A.757E-04 ND ND Infone (a) ND ND ND ND ND A.757E-04 A.757E-04 ND ND Infone (a) ND ND ND ND ND ND ND ND ND Infone (a) ND ND ND ND ND A.335E-04 ND ND ND Infone (a) ND ND ND A.256E-04 A.256E-04 ND ND A.255E-04 ND ND		QN	QN	QN	QN	QN	5.036E-04	5.036E-04	Q.	Q	Ŀ	Ŧ
Proz (a) anthracene ND ND ND ND A757E-04 A757E-04 A757E-04 ND ND Inthere (a) ND ND ND ND ND 2.889E-04 2.889E-04 ND ND Inthere (a) ND ND ND ND ND A339E-04 5.99E-04 ND ND Intere (a) ND ND ND ND ND A339E-04 ND ND Interes ND ND ND ND ND A339E-04 ND ND Interes ND ND ND A33E-04 A33E-04 ND	Iphthalate	1.035E-03	QN	1.924E-04	6.137E-04	9	3.220E-04	3.220E-04	10.00	1.91	4	۵
Althone (a) ND ND ND ND 2.869E-04 2.869E-04 ND ND Intene (a) ND ND ND ND 5.995E-04 5.995E-04 ND ND Intene (a) ND ND ND ND 3.395E-04 5.995E-04 ND ND Intene (a) ND ND ND ND 1.207E-03 1.207E-03 ND ND Intene (a) ND ND ND 1.207E-03 1.207E-03 ND ND ND Intene (a) ND ND ND 1.207E-03 ND ND	nethylbenz(a)anthracene	QN	QN	QN	QN	Q	4.757E-04	4.757E-04	2	2	ш	ш
Weight ND ND ND ND Sigge 6-04 Sigge 6-04 ND ND Interest ND ND ND ND 3.395 E-04 3.395 E-04 ND Interest ND ND ND ND 1.207 E-03 1.207 E-03 ND Interest ND ND ND ND ND ND ND Interest ND ND ND ND ND 1.207 E-03 ND ND Interest ND ND ND ND ND ND ND ND ND Interest ND ND ND ND 2.435 E-04 2.435 E-04 ND ND	fluoranthene (a)	QN	QN	QN	QN	QN	2.869E-04	2.869E-04	Q	QV	щ	L
Indicates ND ND ND ND 3.395E-04 3.395E-04 ND ND Increase ND ND ND 1.207E-03 1.207E-03 ND ND Increase ND ND ND ND ND ND ND Increase ND ND ND ND ND ND ND Increase ND ND ND ND ND ND ND	fluoranthene (a)	QN	QN	QV	QN	QN	5.995E-04	5.995E-04	Ð	2	u.	ш
ND ND ND ND ND 1.207E-03 1.207E-03 ND ND ND ND ND ND ND ND	yrene	ON	QN	QN	QN	Q	3.395E-04	3.395E-04	Q	g	u.	ш
NB NB NB NB NB 2.260E-04 2.260E-04 NB NB NB NB NB NB NB NB 2.538E-04 2.538E-04 ND NB NB NB NB NB NB NB NB	cholanthrene	QN	QN	Q	QV	QN	1.207E-03	1.207E-03	Q	2	u.	ш
ND ND ND ND ND ND 2.538E-04 2.538E-04 ND ND ND 2.435E-04 2.435E-04 ND	,2,3-cd)pyrene	ND	QN	QN	QN	QN	2.260E-04	2.260E-04	2	2	щ	ı
ND ND ND ND 2.435E-04 2.435E-04 ND	h)anthracene	ND	QN	Q	QN	QN	2.538E-04	2.538E-04	Ð	2	ш.	L.
	n,i)perylene	ND	QN	ON	QN	QN	2.435E-04	2.435E-04	Ð	QV	<u>.</u>	ш

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

A = Identified as a contaminant (greater than or equal to 10 times background or minimum MQL)

B = Likely contaminant (less than 10 and greater than or equal to 5 times background or minimum MQL)

C = Probable contaminant (less than 5 and greater than or equal to 2 times background or minimum MQL)

D = Measured, but accuracy or presence questionable (less than 2 and greater than or equal to 1 times background or minimum MQL)

F = Not considered a contaminant (less than 1 times background or minimum MQL)

TABLE A-11. AEC - SVOC RUN NO. 1 DATA FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

The color of the	Ompound	Molecular Weight	Average Concentration - Run 1, ppbv	Average Concentration - Run 1, mg/m³	Background - Concentration, mg/m³	Background Corrected Concentration - Run 1, mg/m³	Dilution Correction Factor (b), %	Corrected Concentration - Run 1, mg/m³	Initial Plume Volume, ft³	Sample Total Material - Run 1, ib	Number of Items	Corrected Emission Factor - Run 1, lb/Item
17. NO												
17.5 NO NO NO NO O O O O O	Particulate/Vapor-phase SVOCs N-Nitrosodimethylamine	74	Q	GN	CN	CN	0.9112	CZ	35.621	C	2	GN C
110	Pyridine	79	Q	2	Q	Q	0.9112	QN	35,621	9	2	2
11	2-Picoline	93	Q.	QN	QN	QN	0.9112	Q	35,621	Q	2	QN
68 NO ND ND ND ND ND ND S652 1124 NO ND ND ND ND ND 36,627 143 ND ND ND ND ND ND 36,627 143 ND ND ND ND ND 36,627 ND 36,627 143 ND ND ND ND ND ND 36,627 143 ND ND ND ND ND 36,627 ND 36,627 143 ND ND ND ND ND ND 36,627 ND 36,627 143 ND ND ND ND ND ND 36,627 ND 36,627 143 ND ND ND ND ND ND 36,627 ND 36,627 168 ND ND ND ND ND ND ND 36,627 </td <td>Methyl methanesulfonate</td> <td>110</td> <td>QN</td> <td>QN</td> <td>QN</td> <td>QN</td> <td>0.9112</td> <td>QN</td> <td>35,621</td> <td>QN</td> <td>2</td> <td>QN</td>	Methyl methanesulfonate	110	QN	QN	QN	QN	0.9112	QN	35,621	QN	2	QN
122 NO NO NO NO NO 0.0112 NO 0.0512 NO 0.0552 NO 0.0512 NO 0.0512 NO 0.0552 NO	N-Nitrosomethylethylamine	88	QN	ND	QN	QN	0.9112	ON	35,621	ON	2	ON
124 NO NO NO NO O9112 NO S5.621	N-Nitrosodiethylamine	102	QN	ND	QN	QN	0.9112	QN	35,621	QN	2	ND
94 ND ND ND ND 09112 ND 35.621 143 ND ND ND ND 09112 ND 35.621 143 ND ND ND ND ND 35.621 ND 35.621 129 ND ND ND ND ND ND 35.621 ND 35.621 117 ND ND ND ND ND 09112 ND 35.621 118 ND ND ND ND ND ND 35.621 ND 35.621 119 ND ND ND ND ND ND 35.621 ND 35.621 110 ND ND ND ND ND ND 35.621 ND 35.621 110 ND ND ND ND ND ND 35.621 ND 35.621 110 ND ND ND ND	Ethyl methanesulfonate	124	QN	ON	QN	QN	0.9112	QN	35,621	QN	2	ND
147 NO	Phenol	94	QN	ND	QN	QN	0.9112	QN	35,621	ON	2	ND
14.3 NO NO NO O O O O O O	Aniine	93	ON	ON	QN	QN	0.9112	QN	35,621	QN	2	ND
129 NO NO NO NO 09112 NO 35,621	bis(2-Chloroethyt)ether	143	QN	ON	QN	QN	0.9112	QN	35,621	ΩN	2	ND
123 ND	Pentachloroethane	202	ON	QN	QN	QN	0.9112	QN	35,621	ON	2	QN
147 ND ND ND ND O 0 0 0 0 0 0 0 0 0	2-Chlorophenol	129	2	9	Q.	Q	0.9112	Q	35,621	2	5	2
144 NO ND ND ND ND 09112 ND 35,621 108	1,3-Dichlorobenzene	147	ON.	ON :	QN.	QN !	0.9112	Q.	35,621	2	2	2
108	1,4-Dichlorobenzene	147	Q.	Q	Q	Q	0.9112	Q	35,621	2	2	Q
103	Benzyl alcohol	108	Q.	Q.	Q.	9	0.9112	QN	35,621	Q	2	Q
147 ND ND ND ND 0.9112 ND 35,621	2-Methylphenol	108	ON.	2	QN	Q	0.9112	Q	35,621	QN	2	QN
107 NO	1,2-Dichlorobenzene	147	2 2	Q	QN	QN.	0.9112	Q	35,621	QV.	2	QN
108	bis(2-Chloroisopropyi)etner	1/1	2 2	QV.	ON.	Q S	0.9112	QN .	35,621	ON.	2	Q !
130	o-loluidine	701	2	2	ON S	2	0.9112	Q .	35,621	Q.	2	2
130 0.098 4,916E-04 1,897E-04 3,017E-04 0,911Z 3,311E-04 3,56Z1 3,311E-04 3,56Z1 3,311E-04 3,56Z1 3,311E-04 3,56Z1 3,311E-04 3,32Z1 3,311E-04	4-memylphenov3-memylphenor	80.	QV.	2	ON C	2	0.9112	ON S	35,621	2 :	2	2
120 0.038 4,515E-04 189/E-04 3.01/E-04 3.01/E-04 3.511E-04 3.512E-04	N-Nitroso-di-n-propylamine	130	ON S		ON	ON	0.9112		35,621	ON C	2	QN
100	Acetophenone	120	0.098		1.897E-04	3.017E-04	0.9112	311	35,621	7.363E-07	2	3.682E-07
123	in-Initiosomorphoine	9 5	2 2	2	2	2 5	0.9112	2 2	35,621	2	2	
123	Hosophroughere	322	2 5	O. C.	S	2 2	2112	22	35,621	2 2	2	2 2
114 ND	Nirobenzene	123	S	CN	S	CN	0 9112	2 2	35,621	2 2	2	2 2
138 ND ND ND ND ND ND 35,621 122 ND ND ND ND ND 0,9112 ND 35,621 139 ND ND ND ND ND ND 35,621 173 ND ND ND ND ND ND 35,621 173 ND ND ND ND ND 0,9112 ND 35,621 163 ND ND ND ND ND 0,9112 ND 35,621 163 ND ND ND ND ND 0,9112 ND 35,621 163 ND ND ND ND ND ND 35,621 163 ND ND ND ND ND ND 35,621 163 ND ND ND ND ND ND 35,621 163 ND ND ND ND <td>N-Nitrosopiperidine</td> <td>114</td> <td>Q</td> <td>QN</td> <td>QN</td> <td>QN</td> <td>0.9112</td> <td>CN</td> <td>35.621</td> <td>S</td> <td>10</td> <td>GN</td>	N-Nitrosopiperidine	114	Q	QN	QN	QN	0.9112	CN	35.621	S	10	GN
122 ND ND ND ND 0.9112 ND 35,621 139 ND ND ND ND ND 0.9112 ND 35,621 173 ND ND ND ND ND ND 35,621 122 ND ND ND ND ND 0.9112 ND 35,621 181 ND ND ND ND ND 0.9112 ND 35,621 181 ND ND ND ND 0.9112 ND 35,621 183 ND ND ND ND 0.9112 ND 35,621 183 ND ND ND ND ND 0.9112 ND 35,621 183 ND ND ND ND ND 0.9112 ND 35,621 183 ND ND ND ND 0.9112 ND 35,621 1843 ND ND <td>Isophorone</td> <td>138</td> <td>QV</td> <td>QN</td> <td>S</td> <td>QN</td> <td>0.9112</td> <td>S</td> <td>35,621</td> <td>Q</td> <td>2</td> <td>QN</td>	Isophorone	138	QV	QN	S	QN	0.9112	S	35,621	Q	2	QN
139 ND ND ND ND 0.9112 ND 35,621 173 ND ND ND ND 0.9112 ND 35,621 122 ND ND ND ND ND ND 35,621 163 ND ND ND ND ND 0.9112 ND 35,621 181 ND ND ND ND ND 0.9112 ND 35,621 128 ND ND ND ND ND 0.9112 ND 35,621 128 ND ND ND ND ND ND 0.9112 ND 35,621 128 ND ND ND ND ND ND ND 35,621 162 ND ND ND ND ND 0.9112 ND 35,621 178 ND ND ND ND ND 0.9112 ND 35,621	2,4-Dimethylphenol	122	QN	QN	Q.	QN	0.9112	2	35,621	Ş	2	QN
173 ND ND ND ND O9112 ND 35,621 122 ND ND ND ND ND 0.9112 ND 35,621 163 ND ND ND ND ND 0.9112 ND 35,621 181 ND ND ND ND ND 0.9112 ND 35,621 128 ND ND ND ND ND 0.9112 ND 35,621 128 ND ND ND ND ND 0.9112 ND 35,621 163 ND ND ND ND ND 0.9112 ND 35,621 163 ND ND ND ND ND 0.9112 ND 35,621 164 ND ND ND ND ND 0.9112 ND 35,621 178 ND ND ND ND 0.9112 ND 35,621 <	2-Nitrophenoi	139	ON	ON	QN	QN	0.9112	QN	35,621	QN	2	QN
122 ND	bis(2-Chloroethoxy)methane	173	QN	QN	QN	QN	0.9112	QN	35,621	QN	2	ND
163 ND	Benzoic acid	122	QN	Q	QN	QN	0.9112	Q	35,621	QN	2	QN
181 ND ND ND ND 0.9112 ND 35,621 128	2,4-Dichlorophenol	163	Q	Q	QN	QN	0.9112	QN	35,621	QN	2	ON
128	1,2,4-Trichlorobenzene	181	Q	Q	Q	QN	0.9112	QN	35,621	Q	2	Q
128	Naphthalene	128	0.125	6.663E-04	Q	6.663E-04	0.9112	7.312E-04	35,621	1.626E-06	2	8.130E-07
153 NO NO NO NO NO 0.9112 NO 35.621	p-Cnioroaniline	871	2	2	QV.	ON.	0.9112	2	35,621	2	2	2
143 ND ND ND ND ND 0.9112 ND 35,621	Z,o-Dichiorophenol	103	2 2	2 2	2 2	2 5	2112	2 2	35,621	2	2	Q C
ine 149 ND ND ND ND 0.9112 ND 35,621 ND 15,621	Hovachlorobidadione	243	2 2	2 2		2 2	0.9112	2 2	33,021	2 2	7 0	2 2
Initio 158 ND ND ND ND 0.9112 ND 35,621 and 143 ND ND ND 0.9112 ND 35,621 Incomplete 162 ND ND ND ND ND 35,621 Incomplete 142 ND ND ND ND ND 35,621 Incomplete 216 ND ND ND ND ND 35,621 Addiene 273 ND ND ND ND 0.9112 ND 35,621 Addiene 273 ND ND ND ND 0.9112 ND 35,621 Addiene 197 ND ND ND ND 0.9112 ND 35,621	Dimethylphenethylamine	149	Q.	S	2 5		0.9112	Q CX	35,621	2 2	2	2 2
and 143 ND ND ND ND 0.9112 ND 35,621 sinzene 142 ND ND ND 0.9112 ND 35,621 sinzene 142 ND ND ND 0.9112 ND 35,621 sinzene 216 ND ND ND 0.9112 ND 35,621 sadiene 273 ND ND ND ND 0.9112 ND 35,621 sadiene 197 ND ND ND 0.9112 ND 35,621	N-Nitroso-di-n-butylamine	158	Q	CX	CN	S	0.9112	S	35 621	Ę	10	Ş
162 ND ND ND ND 0.9112 ND 35,621 Inzene 142 ND ND ND ND 0.9112 ND 35,621 Insene 216 ND ND ND ND 35,621 ND 35,621 Adene 273 ND ND ND ND 35,621 ND 35,621 Adene 197 ND ND ND ND 35,621 ND 35,621	4-Chloro-3-methylphenol	143	QV	2	QV	QN	0.9112	Q	35,621	Q	2 2	QN
nizere 142 ND ND ND 0.9112 ND 35,621 nizere 216 ND ND ND ND ND 35,621 adiene 273 ND ND ND ND ND 35,621 197 ND ND ND ND 35,621 ND ND ND 0.9112 ND 35,621 ND ND ND 0.9112 ND 35,621	Safrole	162	QV	QN	Q	Q	0.9112	QV	35,621	Q	2	Q.
Instant 216 ND ND ND 0.9112 ND 35,621 adiene 273 ND ND 0.9112 ND 35,621 adiene 273 ND ND 0.9112 ND 35,621 ND ND ND 0.9112 ND 35,621	2-Methylnaphthalene	142	ND	QN	QN	QN	0.9112	QN	35,621	QN	2	QN
adiene 273 ND ND ND 0.9112 ND 35,621 197 ND ND ND ND 0.9112 ND 35,621	1,2,4,5-Tetrachlorobenzene	216	ON	QN	QN	QN	0.9112	QN	35,621	QN	2	QN
197 ND ND ND 0.9112 ND 35.621	Hexachlorocyclopentadiene	273	Q	QN	QN	QN	0.9112	QN	35,621	QN	2	ND
	2,4,6-Trichlorophenol	197	Q	Q	QN	Q	0.9112	QN	35,621	Q	2	Q

TABLE A-11. AEC - SVOC RUN NO. 1 DATA FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

1875 MO	Punoduo	Molecular Welght	Average Concentration - Run 1. poby	Average Concentration - Bun 1. morm³	Background - Concentration,	Background Corrected Concentration - Bun 1. mo/m³	Dilution Correction Factor (b) %	Corrected Concentration -	Initial Plume	Sample Total Material - Run	Number of Items	Corrected Emission Factor - Run
1682 No. No.	2.4.5-Trichlorophenol	197	QN	QN	QN	QX	0.9112	CN	35.621	CN	6	CZ
1588 No. No.	Isosafrole	162	QN	S	9	Q	0.9112	2	35,621	2	2	2
138	2-Chloronaphthalene	163	QN	QN	Q	Q	0.9112	QN	35,621	Q	2	Q
158 NO NO NO NO NO NO NO N	2-Nitroaniline	138	QN	QN	QN	ON	0.9112	Q	35,621	2	2	S.
154 NO NO NO NO NO NO NO N	1,4-Naphthoquinone	158	ON	QN	QN	QN	0.9112	QN	35,621	2	2	S
186 NO NO NO NO NO NO NO N	Dimethylphthalate	194	QN	ND	QN	QN	0.9112	QN	35,621	Q.	2	9
182 NO	1,3-Dinitrobenzene	168	QN	ON	QN	QN	0.9112	ON	35,621	QN	2	Q
152 NO NO NO NO NO 06112 NO 55,621 NO 2	2,6-Dinitrotoluene	182	ON	QN	QN	QN	0.9112	Q	35,621	Ð	2	S.
138 NO NO NO NO NO 0.0112 NO 0.5621 NO 0.5621 NO 0.0112 NO	Acenaphthylene	152	QN	QN	QN	QN	0.9112	QN	35,621	QN	2	Q
158 ND ND ND ND O9312 ND S5,621 ND C	3-Nitroaniline	138	QN	QN	QN	QN	0.9112	QN	35,621	9	2	2
154 ND	4-Nitrophenol	139	QN	QN	QV	QV	0.9112	QN.	35,621	g	2	Q
154 ND	2,4-Dinitrophenol	184	QN	QN	QV	Q	0.9112	Q	35,621	Q	2	₽
182 ND ND ND ND ND O9312 ND S5621 ND 2	Acenaphthene	154	QN	QN	QV	Q	0.9112	Ð	35,621	Q	2	ą
158 ND ND ND ND ND ND 09112 ND 55,621 ND 2	2,4-Dinitrotoluene	182	QN	QN	9	QV	0.9112	QN	35,621	Q	2	2
143 NO	Dibenzofuran	168	QN	QN	QN	QN	0.9112	2	35,621	Q	2	₽
143 NO	Pentachlorobenzene	250	ΩN	QN	QN	QV	0.9112	Q	35,621	QN	2	Ð
222 ND ND ND 09112 ND 35621 ND 2 222 ND ND ND ND 09112 ND 35621 ND 2 222 ND ND ND ND 09112 ND 35621 ND 2 156 ND ND ND ND ND 09112 ND 35621 ND 2 158 ND ND ND ND ND ND 09112 ND 35621 ND 2 138 ND ND ND ND 09112 ND 35621 ND 2 139 ND ND ND ND 09112 ND 35621 ND 2 139 ND ND ND ND 09112 ND 35621 ND 2 130 ND ND ND ND ND 09112 ND 35621	1-Naphthylamine	143	QN	QN	ΝD	QV	0.9112	2	35,621	Q	2	9
222 ND ND ND O9912 ND 35,821 ND 2 205 ND ND ND ND 09112 ND 35,821 ND 2 156 ND ND ND ND ND ND 0,9112 ND 35,821 ND 2 158 ND ND ND ND ND ND 0,9112 ND 35,821 ND 2 158 ND ND ND ND ND ND 35,821 ND 2 158 ND ND ND ND ND ND 0,9112 ND 35,821 ND 2 1198 ND ND ND ND ND ND 0,9112 ND 35,821 ND 2 1179 ND ND ND ND ND ND 0,9112 ND ND 2 120 ND ND	2-Naphthylamine	143	QN	QN	QN	QN	0.9112	9	35,621	Q	2	Q
2022 ND ND ND 05912 ND 35,821 ND 2 156 ND ND ND ND ND 09112 ND 35,821 ND 2 156 ND ND ND ND ND ND ND 2 ND 2 158 ND ND ND ND ND ND 05112 ND 35,821 ND 2 158 ND ND ND ND ND ND 35,821 ND 2 159 ND ND ND ND ND 09112 ND 35,821 ND 2 179 ND ND ND ND ND 09112 ND 35,821 ND 2 210 ND ND ND ND ND ND 09112 ND 35,821 ND 2 210 ND ND ND ND </td <td>2,3,4,6-Tetrachlorophenol</td> <td>232</td> <td>QN</td> <td>QN</td> <td>QV</td> <td>Q</td> <td>0.9112</td> <td>Q</td> <td>35,621</td> <td>QN</td> <td>2</td> <td>Q</td>	2,3,4,6-Tetrachlorophenol	232	QN	QN	QV	Q	0.9112	Q	35,621	QN	2	Q
150 ND	Diethylphthalate	222	QN	ND	ND	QN	0.9112	QN	35,621	QV	2	Q
156 ND ND ND ND ND O9112 ND 35,621 ND 2	4-Chlorophenylphenyl ether	205	QN	ND	ON	QN	0.9112	QN	35,621	Q	2	2
152 ND	Fluorene	166	QN	ND	ON	ND	0.9112	ON	35,621	QΝ	2	9
188	5-Nitro-o-toluidine	152	QV	QN	ND	ND	0.9112	QN	35,621	QN	2	Q
198 ND	4-Nitroaniline	138	Q	QN	ON	QN	0.9112	QN	35,621	QN	2	2
18	4,6-Dinitro-2-methylphenol	198	Q	Q	QN	QN	0.9112	QN	35,621	QN	2	QN
273 ND ND ND ND ND ND 09112 ND 35,621 ND 2 179 ND ND ND ND 0.9112 ND 35,621 ND 2 249 ND ND ND ND 0.9112 ND 35,621 ND 2 249 ND ND ND ND 0.9112 ND 35,621 ND 2 289 ND ND ND ND 0.9112 ND 35,621 ND 2 286 ND ND ND 0.9112 ND 35,621 ND 2 286 ND ND ND ND 0.9112 ND 35,621 ND 2 286 ND ND ND ND 0.9112 ND 35,621 ND 2 286 ND ND ND ND 0.9112 ND 35,621 ND <td< td=""><td>Diphenylamine/N-NitrosoDPA</td><td>169</td><td>Q</td><td>Q</td><td>Q</td><td>Q</td><td>0.9112</td><td>Q</td><td>35,621</td><td>QN</td><td>2</td><td>QN</td></td<>	Diphenylamine/N-NitrosoDPA	169	Q	Q	Q	Q	0.9112	Q	35,621	QN	2	QN
1730 ND ND ND ND O9912 ND 35,621 ND 2 249 ND ND ND ND 0.9112 ND 35,621 ND 2 249 ND ND ND ND 0.9112 ND 35,621 ND 2 286 ND ND ND ND 0.9112 ND 35,621 ND 2 228 ND ND ND ND 0.9112 ND 35,621 ND 2 228 ND ND ND 0.9112 ND 35,621 ND 2 228 ND ND ND 0.9112 ND 35,621 ND 2 228 ND ND ND ND 0.9112 ND 35,621 ND 2 249 ND ND ND 0.9112 ND 35,621 ND 2 250 ND <td< td=""><td>sym-Trinitrobenzene</td><td>213</td><td>Q</td><td>QN</td><td>Q</td><td>Q</td><td>0.9112</td><td>Q</td><td>35,621</td><td>QN</td><td>2</td><td>QN</td></td<>	sym-Trinitrobenzene	213	Q	QN	Q	Q	0.9112	Q	35,621	QN	2	QN
179 ND ND ND ND O9312 ND 35,621 ND 2 285 ND ND ND ND 0.9312 ND 35,621 ND 2 285 ND ND ND ND 0.9312 ND 35,621 ND 2 286 ND ND ND ND ND 0.9312 ND 35,621 ND 2 286 ND ND ND ND 0.9312 ND 35,621 ND 2 286 ND ND ND ND 0.9312 ND 35,621 ND 2 286 ND ND ND ND 0.9312 ND 35,621 ND 2 167 ND ND ND ND 0.9312 ND 35,621 ND 2 17 ND ND ND ND 0.9312 ND 35,621 ND	Diallate	270	Q	Q	Q	QN	0.9112	9	35,621	Q	2	QN
249 ND ND ND ND 0.9112 ND 35,621 ND 2 169 ND ND ND ND 0.9112 ND 35,621 ND 2 228 ND ND ND ND 0.9112 ND 35,621 ND 2 228 ND ND ND ND 0.9112 ND 35,621 ND 2 266 ND ND ND ND ND 0.9112 ND 35,621 ND 2 296 ND ND ND ND ND 0.9112 ND 35,621 ND 2 296 ND ND ND ND ND 0.9112 ND 35,621 ND 2 178 ND ND ND ND ND 0.9112 ND 35,621 ND 2 178 ND ND ND ND ND 0.9112	Phenacetin	179	Q	Q	QN	Q	0.9112	ND	35,621	Q	2	Q
285 ND ND ND ND ND ND 0.9112 ND 35,621 ND 2 286 ND ND ND ND 0.9112 ND 35,621 ND 2 286 ND ND ND ND ND ND 35,621 ND 2 286 ND ND ND ND ND 0.9112 ND 35,621 ND 2 295 ND ND ND ND ND ND 0.9112 ND 35,621 ND 2 178 ND ND ND ND 0.9112 ND 35,621 ND 2 178 ND ND ND ND ND 0.9112 ND 35,621 ND 2 178 ND ND ND ND ND 0.9112 ND 35,621 ND 2 200 ND ND ND	4-Bromophenylphenyl ether	249	9	Q	QN	Q	0.9112	Q	35,621	Q	2	Q
169 ND	Hexachlorobenzene	285	9	Q	QN	Q	0.9112	QV	35,621	QN	2	QN
228 ND ND ND ND ND ND 0.9112 ND 35,621 ND 2 256 ND ND ND ND ND 0.9112 ND 35,621 ND 2 296 ND ND ND ND ND 0.9112 ND 35,621 ND 2 178 ND ND ND ND ND ND 0.9112 ND 35,621 ND 2 178 ND ND ND ND ND ND 0.9112 ND 35,621 ND 2 167 ND ND ND ND ND 0.9112 ND 35,621 ND 2 278 ND ND ND ND ND ND 0.9112 ND 35,621 ND 2 281 ND ND ND ND ND 0.9112 ND 35,621 ND 2 <td>4-Aminobiphenyi</td> <td>169</td> <td>Q</td> <td>QN</td> <td>QN</td> <td>QN</td> <td>0.9112</td> <td>QN</td> <td>35,621</td> <td>Q</td> <td>2</td> <td>Q</td>	4-Aminobiphenyi	169	Q	QN	QN	QN	0.9112	QN	35,621	Q	2	Q
256 ND ND ND ND 0.9112 ND 35,621 ND 2 178 ND ND ND ND 0.9112 ND 35,621 ND 2 178 ND ND ND ND 0.9112 ND 35,621 ND 2 178 ND ND ND ND 0.9112 ND 35,621 ND 2 167 ND ND ND ND 0.9112 ND 35,621 ND 2 167 ND ND ND ND 0.9112 ND 35,621 ND 2 202 ND ND ND ND ND 0.9112 ND 35,621 ND 2 202 ND ND ND ND ND ND 0.9112 ND 35,621 ND 2 1 202 ND ND ND ND ND ND	Pronamide	228	Q	2	2	QN	0.9112	ND	35,621	QN	2	QN
178	Pentachiorophenol	266	2	Q	2	S	0.9112	NO NO	35,621	Q	2	2
178	Peniachioronimoenzene	282	2 2	2	2	Q	0.9112	Q	35,621	Q	2	2
178	Frienariiirene	8/1		2	2	2	0.9112	QV	35,621	Q	2	2
197 197	Anmacene	1/8	2	2	2	Q.	0.9112	Q :	35,621	2	2	2
10	Di o hindohthalata	10/	NO.		2	2	0.9112	ON .	35,621	2	2	Q
Columbia C	4-Nitron incline, 1-oxide	2/0	0.030	4.424E-04	2 2	4.424E-04	0.9112	4.855E-04	35,621	1.080E-06	2	5.398E-07
184 ND	Methanvilane	284	Q Q	2 2	2 2	2 2	0.3112	25	33,021	2 9	7	2
120	Flioranthone	200	2 2	2 2	2 2	2 2	0.9112	2 2	33,021	2 9	7	2
Color Colo	Banzidina	285	2 2	2 2	2 2	2	0.3112	2 2	33,021	2 9	7	2
256 ND	Dynama	303	2 5	2 2	2 2	2 2	0.9112	2 2	120,02	2	N	2
10	n-Dimethylamingazohenzene	202	2 2	2 2	2 2	2 2	0.9112	ON COL	120,021	2	7	2
10	Chlorobenzilate	325	2 2	2 5	2 2	2 2	0.9112	25	33,021	2 2	7 0	2
312 0.234 3.036E-03 0.9112 3.332E-03 35,621 7.410E-06 2 3 3 2 2 3	Kenone	491	2 2	2 2	2 5	2 2	0.9112	2 2	33,021	2 2	7 0	2 2
212 ND ND ND 0.9112 ND 35,621 ND 2 223 ND ND ND 0.9112 ND 35,631 ND 2	Butylbenzylphthalate	312	0.234	3 036F-03	2 5	3 0365-03	0.3112	3 230E-03	35,621	2440EAS	400	NO 2026
223 ND ND ND 09112 ND 35.651 ND 9	3.3Dimethylbenzidine	212	QV	ON ON	2 2	2020	0.3112	S.SSE-US	35,621	NO CN	26	3.7035-00
	2-Acetvlaminofluorene	223	9	Q	S	Ç.	0 0112	S CN	35,021	3 5	•	3 5

TABLE A-11. AEC - SVOC RUN NO. 1 DATA FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

を	,								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
		Average	Average	Background •	Background	Citatio	Corrected		Sample Total		Corrected
	Molecular	Concentration -	Concentration -	Concentration,	Concentration -	Correction	Concentration -	Initial Plume	Material - Run	Number of	Factor - Run
Compound	Weight	Run 1, ppbv	Run 1, mg/m³	mg/m³	Run 1, mg/m³	Factor (b), %	Run 1, mg/m³	Volume, ft ³	1, lb	Items	1, lb/item
bis(2-Ethylhexyl)phthalate	391	0.240	3.903E-03	2.139E-02	-1.748E-02	0.9112	QN	35,621	QN	2	Q
3,3'-Dichlorobenzidine	253	QV	QN	QN	QN	0.9112	QN	35,621	QN	2	QN
Benz(a)anthracene	228	QN	QN	QN	QN	0.9112	ON	35,621	QN	2	QN
Chrysene	228	QV	Q	QN	QN	0.9112	QN	35,621	QN	2	ON
Di-n-octylphthalate	391	0.064	1.035E-03	QN	1.035E-03	0.9112	1.136E-03	35,621	2.526E-06	2	1.263E-06
7,12-Dimethylbenz(a)anthracene	256	Q	QN	QN	QN	0.9112	ON	35,621	QN	2	Q
Benzo(b)fluoranthene (a)	252	QN	QN	QN	QN	0.9112	ND	35,621	ON	2	Q
Benzo(k)fluoranthene (a)	252	QN	QN	QN	QN	0.9112	QN	35,621	ON	2	QN
Benz(a)pyrene	252	Q.	QN	QN	QN	0.9112	QN	35,621	QN	2	QN
3-Methylcholanthrene	268	QV	Q	QN	ON	0.9112	QN	35,621	QN	2	ON
Indeno(1,2,3-cd)pyrene	276	QN	QN	QN	QN	0.9112	ND	35,621	QN	2	QN
Dibenz(a,h)anthracene	278	QN	QN	QN	ON	0.9112	ND	35,621	Q	2	Q
Benzo(g,h,i)perylene	276	QN	QN	QN	QN	0.9112	ND	35,621	Q	2	Q

a
Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.
b
Estimated from tracer data as presented in Volume IV.

TABLE A-12. AEC - SVOC RUN NO. 2 DATA FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

ND	Compound	Molecular Weight	Average Concentration - Run 2, ppbv	Average Concentration - Run 2, mg/m³	Background - Concentration, mg/m³	Background Corrected Concentration -	Dilution Correction Factor (b), %	Corrected Concentration - Run 2, mg/m²	Initial Plume Volume, ft*	Sample Total Material - Run 2, lb	Number of Rems	Corrected Emission Factor - Run 2, Ib/Item
1. 1. 1. 1. 1. 1. 1. 1.	0000											
17. No.	Nationale Vapor-pilase SVOCs N-Nitrosodimethylamine	74	QN	CN	QN	Q	0.5847	QN	34.471	QN	3	QN
The color of the	Pvridine	62	Q	2	2	2	0.5847	QN	34,471	Q	3	9
Figures Figu	2-Picoline	93	QN	QN.	QN.	Q	0.5847	Q	34,471	QN	3	Q
Vigorithmen 88 NO NO NO NO OSS947 NO S44,71 NO 3 Intelle 1924 NO NO NO NO OSS947 NO S44,71 NO 3 Intelle 1924 NO NO NO NO NO S84,71 NO 3 Intelle 1924 NO NO NO NO NO S84,71 NO 3 Intelle 1924 NO NO NO NO NO S84,71 NO 3 Intelle NO NO NO NO NO NO S84,71 NO S94,71 NO S94,71 <th< td=""><td>Methyl methanesulfonate</td><td>110</td><td>QN</td><td>Q</td><td>Q</td><td>Q</td><td>0.5847</td><td>QN</td><td>34,471</td><td>Q</td><td>8</td><td>Q</td></th<>	Methyl methanesulfonate	110	QN	Q	Q	Q	0.5847	QN	34,471	Q	8	Q
122 NO NO NO NO NO O O O	N-Nitrosomethylethylamine	88	Q	QN	QN	QN	0.5847	QN	34,471	S	3	Ð
124 ND ND ND ND O O O O O O O O O	N-Nitrosodiethylamine	102	QN	QN	QN	QN	0.5847	QN	34,471	S	3	Q
14.5 No. No. No. No. No. 0.5847 No. 34,471 No. 3	Ethyl methanesulfonate	124	QN	QN	QN	QN	0.5847	QN	34,471	QN	3	QN
there 93 ND ND ND 0.5847 ND 34,471 ND 3 ther 122 ND ND ND ND 0.5847 ND 34,471 ND 3 the 147 ND ND ND ND ND 0.5847 ND 34,471 ND 3 the 147 ND ND ND ND 0.5847 ND 34,471 ND 3 the 173 ND ND ND ND 0.5847 ND 34,471 ND 3 the 173 ND ND ND 0.5847 ND 34,471 ND 3 the ND ND ND 0.5847 ND 34,471 ND 3 the ND ND ND 0.5847 ND 34,471 ND 3 the ND ND ND ND 0.5847 ND	Phenol	94	QN	QN	QN	QN	0.5847	QN	34,471	ND	3	ON
143 ND ND ND ND ND ND 0.5847 ND 34,471 ND 3	Aniline	93	QN	QN	QN	QN	0.5847	QN	34,471	ND	3	ND
1292 NU	bis(2-Chloroethyl)ether	143	QN	QN	ND	QN	0.5847	QN	34,471	QN	3	ND
123 NO NO NO NO 0.5847 NO 0.34471 NO 0.9847 NO 0.34471 NO 0.9847 NO 0.34471 NO 0.9847 NO 0.34471 NO 0.9847 NO 0.34471 NO	Pentachloroethane	202	ON	QN	ND	QN	0.5847	QN	34,471	QN	3	QV
147 ND ND ND ND O.5847 ND O.	2-Chlorophenol	129	QN	QN	ND	QN	0.5847	ON	34,471	ND	3	ND
108	1,3-Dichlorobenzene	147	QN	ON	ND	QN	0.5847	QN	34,471	QN	3	NO
108 ND ND ND ND O.5847 ND 34,471 ND S S S S S S S S S	1,4-Dichlorobenzene	147	QN	QN	ND	QN	0.5847	QN	34,471	QN	3	Q
108 ND	Benzyl alcohol	108	ON	ON	ND	QN	0.5847	ON	34,471	QN	3	2
Operation 1147 ND ND ND OSS47 ND S34,71 ND 3 Opperation 177 ND ND ND ND OSS47 ND 34,471 ND 3 Opperation 107 ND ND ND ND ND 34,471 ND 3 All Politics ND ND ND ND ND OSS47 ND 34,471 ND 3 All Politics ND ND ND ND OSS47 ND 34,471 ND 3 All Politics ND ND ND ND ND OSS47 ND 34,471 ND 3 All Politics ND ND ND ND ND OSS47 ND 34,471 ND 3 All Politics ND ND ND ND ND ND 34,471 ND 3 All Politics ND ND ND	2-Methylphenol	108	QN	ND	ND	ND	0.5847	QN	34,471	ND	3	ND
171 ND ND ND ND O O O O O O O O O	1,2-Dichlorobenzene	147	QN	ND	ND	QN	0.5847	QN	34,471	QN	3	ON
Mathyphenoid 1097 ND ND ND ND ND ND ND N	bis(2-Chloroisopropyl)ether	171	Q	Q	ND	Q	0.5847	Q	34,471	Q	3	Q
108	o-Toluidine	107	Q	ΩŅ	ND	QN	0.5847	QN	34,471	Q	က	Q
130	4-Methylphenol/3-Methylphenol	108	Q	Ð	Q	Q	0.5847	Q	34,471	S	ဗ	Q
120	N-Nitroso-di-n-propylamine	130	Q	Q	Q	Q	0.5847	Q	34,471	Q	3	2
Fig. 116 ND ND ND ND O.5547 ND 34,471 ND S S	Acetophenone	120	0.160	7.980E-04	1.897E-04	6.083E-04	0.5847	1.040E-03	34,471	2.239E-06	8	7.462E-07
123	N-Nitrosomorpholine	91,	2 2	2 2	2	2 2	0.5847	ON S	34,471	Q C	ρ (2
123	Hevachloroothana	100	22		22		0.5847	S	34,471	2 2	2 6	2 2
112	Nitrobenzana	193	2 2	2 2	2 2	2 2	0.5847	2 2	34.471	2 5	9 6	2 2
138	N-Nitrosopineridine	114	2 2	2 2	2 2	2 2	0.5847	2 2	34 471	Q Q	o e.	2 2
1 122 ND ND ND ND 0.5847 ND 34,471 ND 3 Inethane 139 ND ND ND ND 0.5847 ND 34,471 ND 3 Inethane 139 ND ND ND ND ND 0.5847 ND 34,471 ND 3 tene 122 ND ND ND ND 0.5847 ND 34,471 ND 3 tene 183 ND ND ND ND 0.5847 ND 34,471 ND 3 tene 183 ND ND ND 0.5847 ND 34,471 ND 3 tene 261 ND ND ND 0.5847 ND 34,471 ND 3 tene 261 ND ND ND ND 0.5847 ND 34,471 ND 3 tene 261 ND<	Sophorone	138	Q.	Q	S	GN	0.5847	S	34.471	Q	6	Q
139 ND	2,4-Dimethylphenol	122	Q	2	S	2	0.5847	Q	34.471	2	8	2
173 ND	2-Nitrophenol	139	Q	Q	QN	QN	0.5847	Q	34.471	Q	8	Q
122 ND ND ND ND 0.5847 ND 34,471 ND 3 ene 163 ND ND ND ND ND 1,572E-03 0.5847 ND 34,471 ND 3 ene 128 ND ND ND 1,572E-03 0.5847 ND 34,471 ND 3 a 128 0.295 1,572E-03 0.5847 ND 34,471 ND 3 a 128 ND ND ND ND 0.5847 ND 34,471 ND 3 a 249 ND ND ND ND 0.5847 ND 34,471 ND 3 a 249 ND ND ND ND 0.5847 ND 34,471 ND 3 a 240 ND ND ND ND 0.5847 ND 34,471 ND 3 a A ND	bis(2-Chloroethoxy)methane	173	Q	QN	QN	QN	0.5847	QN	34,471	QN	3	QN
rene 163 ND ND ND ND 0.5847 ND 34,471 ND 3 rene 181 ND ND ND 0.5847 ND 34,471 ND 3 rene 181 ND ND 1,572E-03 0.5847 ND 34,471 ND 3 rene 128 ND ND ND ND 0.5847 ND 34,471 ND 3 rene 249 ND ND ND ND ND 0.5847 ND 34,471 ND 3 rene 249 ND ND ND ND 0.5847 ND 34,471 ND 3 rene 249 ND ND ND ND 0.5847 ND 34,471 ND 3 rene 149 ND ND ND ND 0.5847 ND 34,471 ND 3 rene 142 N	Benzoic acid	122	QN	QN	Q	QN	0.5847	Q	34,471	Q	က	9
tene 181 ND ND ND ND 1572E-03 0.5847 2.689E-03 34,471 S.78F-06 128 0.295 1.572E-03 ND 1572E-03 0.5847 ND 34,471 S.78F-06 128 ND ND ND ND ND ND 34,471 ND 2 149 ND ND ND ND ND 34,471 ND amine 261 ND ND ND ND 0.5847 ND 34,471 ND amine 149 ND ND ND ND 0.5847 ND 34,471 ND hend 142 ND ND ND ND 0.5847 ND 34,471 ND benzene 216 ND ND ND ND 0.5847 ND 34,471 ND benzene 212 ND ND ND 0.5847 ND 34,471 ND	2,4-Dichlorophenol	163	ON	QN	QN	QN	0.5847	QN	34,471	ND	3	QN
128 0.295 1.572E-03 ND 1.572E-03 0.5847 2.689E-03 34,471 5.787E-06 128 ND ND ND ND ND 0.5847 ND 34,471 ND 163 ND ND ND ND ND 0.5847 ND 34,471 ND ne 261 ND ND ND ND 0.5847 ND 34,471 ND nmine 149 ND ND ND ND 0.5847 ND 34,471 ND nmine 149 ND ND ND ND 0.5847 ND 34,471 ND nmine 142 ND ND ND ND 0.5847 ND 34,471 ND ne 142 ND ND ND ND 0.5847 ND 34,471 ND nd 142 ND ND ND 0.5847 ND 34,471 ND	1,2,4-Trichlorobenzene	181	Q	QN	QN	QN	0.5847	QN	34,471	ND	3	QN
128	Naphthalene	128	0.295	1.572E-03	QN	1.572E-03	0.5847	2.689E-03	34,471	5.787E-06	3	1.929E-06
163 ND	p-Chloroaniline	128	2	Q	Q.	Q	0.5847	Q	34,471	2	8	2
249 ND ND ND 0.5847 ND 34,471 ND 261 ND ND ND 0.5847 ND 34,471 ND 149 ND ND ND 0.5847 ND 34,471 ND 143 ND ND ND ND 0.5847 ND 34,471 ND 142 ND ND ND ND 0.5847 ND 34,471 ND 142 ND ND ND ND 0.5847 ND 34,471 ND 142 ND ND ND 0.5847 ND 34,471 ND 216 ND ND ND 0.5847 ND 34,471 ND 273 ND ND ND ND 0.5847 ND 34,471 ND 197 ND ND ND 0.5847 ND 34,471 ND	2,6-Uichiorophenol	163	2	2	Q	2	0.5847	2	34,471	2	8	2
143	Hexachioropropene	249	2 2	2 2	2 2	2 2	0.5847	2 2	34,471	2 2	8	2
158 ND	Dimothylaboothylamina	107	2 2	2 2	2	2 2	0.3047	22	04,471	2	2	2 5
142 ND ND ND ND 0.5847 ND 34,471 ND ND ND 0.5847 ND 34,471 ND ND ND ND ND ND ND N	N. Nitroso di p. butylamina	143	2 5	2 2	ON CAN	200	0.3047	2 2	34,471	Q Q	9 6	22
162 ND	4.Chloro-3-methylphanot	443	2 2	2 5	2 2	2 2	0.3047	2 2	34.471	2 2	, ,	2 2
142 ND ND ND O.5847 ND 34,471 ND ND S44	Safrole	169	2	2 2	2 5	S C	0.5847	2 2	34 471	2	9 6	2 5
216 ND ND ND 0.5847 ND 34,471 ND 273 ND ND ND 0.5847 ND 34,471 ND 197 ND ND ND 0.5847 ND 34,471 ND	2-Methylnaphthalene	142	2	2	QN	Q	0.5847	2 2	34.471	2	3	Q
273 ND ND ND 0.5847 ND 34,471 ND 197 ND 34,471 ND ND 0.5847 ND 34,471 ND ND 0.5847 ND 34,471 ND ND ND 0.5847 ND 0.5847 ND 0.5	1,2,4,5-Tetrachlorobenzene	216	2	2	Q	Q	0.5847	Q	34,471	Q	3	Q.
197 ND ND ND 0.5847 ND 34,471 ND	Hexachlorocyclopentadiene	273	Q.	Q	QV	QN	0.5847	Q	34,471	Q	3	Q
	2,4,6-Trichlorophenol	197	2	9	CN	Q	0.5847	Q	34.471	Q	3	QN

TABLE A-12. AEC - SVOC RUN NO. 2 DATA FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

	roles la	Average	Average Concentration -	Background - Concentration,	Background Corrected	Dilution	Corrected	Initial Plume	Sample Total Material - Run	Number of	Corrected Emission Factor - Run
Compound	Weight	Run 2, ppbv	Run 2, mg/m³	mg/m³	Run 2, mg/m³	Factor (b), %	Run 2, mg/m³	Volume, ft³	2, lb	tems	2, lb/item
2.4.5-Trichlorophenol	197	QN	Q.	QN	QN	0.5847	QN	34,471	QN	3	Q
Isosafrole	162	QN	QN	QN	QN	0.5847	QN	34,471	2	က	Q
2-Chloronaphthalene	163	QN	QN	QN	Q	0.5847	QN	34,471	2	3	2
2-Nitroaniline	138	Q	Q	Q	Q	0.5847	QN S	34,471	Q.	8	2
1,4-Naphthoquinone	158	Q	Q	2	2	0.5847	QN !	34,471	Q.	es [2
Dimethylphthalate	194	2	QN	QN	QN	0.5847	Q	34,471	2	3	2
1,3-Dinitrobenzene	168	Q	QN	QN	Q	0.5847	Q	34,471	2	8	2
2,6-Dinitrotoluene	182	QN	Q	QN	Q	0.5847	Q	34,471	Q.	8	2
Acenaphthylene	152	QN	Q.	QN	QN	0.5847	Q	34,471	QN	8	2
3-Nitroaniline	138	Q	Q	QN	QN	0.5847	Q	34,471	Q	3	2
4-Nitrophenol	139	QV	QN	Q	Q	0.5847	2	34,471	QN	8	2
2,4-Dinitrophenol	184	Q	Q	Q	Q	0.5847	Q.	34,471	Q	8	2
Acenaphthene	154	QN	QN	QN	Q	0.5847	Q	34,471	Q.	8	2
2,4-Dinitrotoluene	182	QN	QN	Q	QN	0.5847	9	34,471	Q	3	2
Dibenzofuran	168	Q	Q	QN	Q	0.5847	Q	34,471	Q	6	2
Pentachlorobenzene	250	Q	QN	QN	Q	0.5847	9	34,471	QN	8	2
1-Naphthylamine	143	QN	Q	QN	QN	0.5847	QN	34,471	QN	3	2
2-Naphthylamine	143	QN	Q	Q	Q	0.5847	Q	34,471	Q	8	9
2,3,4,6-Tetrachlorophenol	232	Q	Q	QN	Q	0.5847	QN	34,471	Q	6	2
Diethylphthalate	222	ON	QN	Q	Q	0.5847	Q	34,471	QN	3	2
4-Chlorophenylphenyl ether	205	Q	QV	Q	QV	0.5847	2	34,471	Q	3	2
Fluorene	166	Q	QN	QN	QV	0.5847	<u>Q</u>	34,471	QN	8	2
5-Nitro-o-toluidine	152	QN	Q	QN	Q	0.5847	Q	34,471	Q	3	Q.
4-Nitroaniline	138	QN	QV	QN	QN	0.5847	Q	34,471	QN	3	Q.
4,6-Dinitro-2-methylphenol	198	Q	2	Q	QU.	0.5847		34,471	ON.	5	2
Diphenylamine/N-NitrosoDPA	169	Q	9	9	2	0.5847	Q.	34,471	ON.	8	
sym-Trinitrobenzene	213	Q	9	Q	2	0.5847	QN I	34,471	QN :	8	Q.
Diallate	270	Q	Q	2	2	0.5847	2	34,471	ON:	5	2
Phenacetin	179	Q	2	9	9	0.5847	2	34,471	QV.	8	2 2
4-Bromophenylphenyl ether	249	9	Q	9	2	0.5847	2	34,471	2	5	2
Hexachlorobenzene	285	Q S	2 5	2 5	ON S	0.5847		34,471	2	2 (2 2
4-Aminobiphenyl	169	2 5	2 9	2	2 2	0.5847	2 2	34,471	2	2	2 2
Pronamice	220	2 2	2 2	2 2	2 2	0.3647	2 2	34 471	22	9 6	2 5
Pentachloropitobenzene	295	2 5	2	S	2	0.5847	2	34.471	2	0	2
Phenanthrene	178	R	QN	8	Q	0.5847	ON.	34,471	QN	3	Q
Anthracene	178	QV	9	QN	QN	0.5847	QN	34,471	Q	၉	Q.
Carbazole	167	ON	QV	QN	QN	0.5847	QN	34,471	ND	3	Q
Di-n-butylphthalate	278	0.455	5.268E-03	QN	5.268E-03	0.5847	9.009E-03	34,471	1.939E-05	3	6.463E-06
4-Nitroquinoline-1-oxide	190	QN	ND	QN	QN	0.5847	QN	34,471	Q	က	Q
Methapyriene	261	QN	ND	QN	QN	0.5847	Q	34,471	2	3	Q.
Fluoranthene	202	QN	ON	Q	Q	0.5847	Q	34,471	2	3	Q
Benzidine	184	Q	Q	Q	Q	0.5847	Q	34,471	2	6	Q
Pyrene	202	Q	Q	Q	QN	0.5847	Q	34,471	2	6	Q
p-Dimethylaminoazobenzene	225	Q	2	2	Q	0.5847	2	34,471	Q	8	9
Chlorobenzilate	325	2	Q	2	Q	0.5847	Q.	34,471	2	8	9
Kepone	491	ON	ON I	2	ON 1	0.5847	UN O	34,471	ON 1992	2	ON C
Butylbenzylphthalate	312	0.098	1.278E-03	2	1.278E-03	0.5847	2.185E-03	34,471	4.702E-06	,	1.56/E-06
3,3'-Dimetnyibenzidine	212	Z.	ND	ND	JZ.	0.5847	NU	1/4/40	2	2	Ü

TABLE A-12. AEC - SVOC RUN NO. 2 DATA FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

Corrected Emission Factor - Run 2, Ib/Item	QN	ΩN	QN	QN	9	Q	Q	Q	Q	Q	Ð	QN	Q	Q
Number of tems	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Sample Total Material - Run 2, lb	QN	QN	Q	QN	QN	Q	Ð	2	Q	Q	Q	Q	Q	ON
Initial Plume Volume, tr	34,471	34,471	34,471	34,471	34,471	34,471	34,471	34,471	34,471	34,471	34,471	34,471	34,471	34,471
Corrected Concentration - Run 2, mg/m²	QN	QN	QN	QN	QN	QN	Q	Q	QN	QN	QN	QN	QN	QN
Dilution Correction Factor (b), %	0.5847	0.5847	0.5847	0.5847	0.5847	0.5847	0.5847	0.5847	0.5847	0.5847	0.5847	0.5847	0.5847	0.5847
Background Corrected Concentration -	QN	QN	QN	QN	QN	QN	ΩN	QN	QN	QN	an	ON	QN	QN
Background - Concentration, mg/m²	ON	2.139E-02	QN	ON	QN	Q	QN	QN	QN	QN	QN	DN	QN	ND
Average Concentration - Run 2, mg/m³	QN	ND	ND	ND	QN	QN	QN	ON	QN	QN	DN	QN	ON	QN
Average Concentration - Run 2, ppbv	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	ND	QN	QN
Molecular Weight	223	391	253	228	228	391	256	252	252	252	268	276	278	276
Compound	2-Acetylaminofluorene	ois(2-Ethylhexyl)phthalate	3,3'-Dichlorobenzidine	3enz(a)anthracene	Chrysene	Di-n-octylphthalate	7,12-Dimethylbenz(a)anthracene	3enzo(b)fluoranthene (a)	Senzo(k)fluoranthene (a)	3enz(a)pyrene	3-Methylcholanthrene	ndeno(1,2,3-cd)pyrene	Oibenz(a,h)anthracene	3enzo(g,h,i)perylene

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers. b Estimated from tracer data as presented in Volume IV.

TABLE A-13. AEC - SVOC COMPOSITE RUN NO. 1-2 DATA FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

	Molecular	Average Concentration		Background - Concentration,	Background Corrected Concentration	Dilution Correction	Concentration -	Initial Plume	Sample Total Material - Run	ź	Corrected Emission Factor Run 1
	angina.	ndia 1-2, phos	nul 1-2, (light)		nui 1-2, iiigiii	רמניטן (ט), יא	ndi Pz, rigili	volume, re	1-2, 10	140110	4, 12/1/011
Particulate/Vapor-phase SVOCs											
N-Nitrosodimethylamine	74	Q	Q	Q	Q	0.74795	Q	35,046	Q	2.5	Q
Pyridine	62	QN	QN	QN	QN	0.74795	QN	35,046	QN	2.5	Q
2-Picoline	93	QN	Q	Q	Q	0.74795	QN	35,046	2	2.5	Q
Methyl methanesulfonate	110	Q	QN	QN	QN	0.74795	QN	35,046	NO	2.5	Q
N-Nitrosomethylethylamine	88	ON	ON	ON	QN	0.74795	QN	35,046	ON	2.5	QN
N-Nitrosodiethylamine	102	QN	QN	QN	QN	0.74795	QN	35,046	QN	2.5	Q
Ethyt methanesulfonate	124	QN	QN	ON	QN	0.74795	QN	35,046	QN	2.5	Q
Phenol	94	QN	QN	QN	QN	0.74795	QN	35,046	QN	2.5	QN
Aniline	93	QV	QN	2	Q	0.74795	QN	35,046	9	2.5	2
bis(2-Chloroethyl)ether	143	ND	Q	Q	QV	0.74795	QN	35,046	Q	2.5	9
Pentachloroethane	202	QV	Q	Q	QN	0.74795	Q	35,046	Q	2.5	9
2-Chlorophenal	129	QN	Q	Q	Q	0.74795	QN	35,046	9	2.5	2
1,3-Dichlorobenzene	147	QV	Q	Q	Q	0.74795	Q	35,046	Q	2.5	Q
1,4-Dichlorobenzene	147	QV	QN	QN	QN	0.74795	QN	35,046	Q	2.5	Ð
Benzyl alcohol	108	Q	Q	QN	QN	0.74795	QN	35,046	Q	2.5	2
2-Methylphenol	108	QN	Q	Q	QN	0.74795	QN	35,046	Q	2.5	Q
1,2-Dichlorobenzene	147	2	ON	Q	QN	0.74795	Q	35,046	Q	2.5	2
bis(2-Chloroisopropyl)ether	171	2	Q	Q	QN	0.74795	Q	35,046	Q	2.5	Q.
o-Toluidine	107	QN.	2	Q	Q	0.74795	Q	35,046	Q	2.5	2
4-Methylphenol/3-Methylphenol	108	Q.	Q.	Q	Q	0.74795	Q	35,046	Q	2.5	2
N-Nitroso-di-n-propylamine	130	Q.	Q	Q	QN	0.74795	Q	35,046	Q	2.5	2
Acetophenone	120	0.151	7.518E-04	1.897E-04	5.621E-04	0.74795	7.515E-04	35,046	1.644E-06	2.5	6.577E-07
N-Nitrosomorphonine	911	2	2	Q S	Q.	0.74795	2	35,046	2 :	2.5	Q !
N-Nitrosopyrolidine	301	2	2	Q !		0.74795	2	35,046	Q :	2.5	2
Hexachioroethane	237	2	Q.	Q C	QN	0.74795	Q.	35,046	2	2.5	2
Nitrobenzene	123	2	ON.	QN.	Q.	0.74795	Q.	35,046	Q.	2.5	2
N-Nitrosopipendine	114		2	ON C	ON	0.74795	ON S	35,046	2	2.5	2
1soprorate 2.4 Dimothiabanal	30	2 2	2 2	2	2	0.74795		35,046	2 2	2.5	2
2,4-Dineulyphenol	120	2 2	2 2	2 2	2 2	0.74793	2 5	33,040	2 2	5.5	2 2
his (2. Chloroethown) mothano	472	2 2	2 2	2 2	222	0.74795	2 2	33,040	2 2	2.3	2 2
Benzoic acid	122	2 2	2 2	2 2	S S	0.74795	2 2	35,046	2 2	2.3	2 2
2.4-Dichlorophenol	163	QV	GN	CN	CN	0.74795	SS	35.046	2 2	2.5	2 2
1,2,4-Trichlorobenzene	181	QN	2	Q.	Q	0.74795	2	35,046	2	2.5	2
Naphthalene	128	0.225	1.200E-03	QN	1.200E-03	0.74795	1.604E-03	35,046	3.509E-06	2.5	1.404E-06
p-Chloroaniline	128	QN	QN	QN	QN	0.74795	QN	35,046	QN	2.5	QN
2,6-Dichlorophenol	163	QN	Q	QN	QN	0.74795	QN	35,046	Q	2.5	ON
Hexachloropropene	249	Q	Q	Q	QN	0.74795	Q	35,046	Q	2.5	QN
Hexachlorobutadiene	261	Q	Q	Q	QN	0.74795	Q	35,046	Q	2.5	Q
Dimethylphenethylamine	149	Q.	9	2	Q	0.74795	Q	35,046	S		Q
N-Nitroso-di-n-butylamine	158	2	Q	S	QN	0.74795	2	35,046	2	-	2
4-Chloro-3-methylphenol	143	Q.	QN	Q	Q	0.74795	Q	35,046	2		2
Sarrole	162	CN C	ON C	Q !	QN	0.74795	Q	35,046	2		2
Z-Metnyinaphtnalene	142	0.060	3.538E-04	2	3.538E-04	0.74795	4.730E-04	35,046	1.035E-06	-	4.140E-07
1,2,4,5-1etrachloropenzene	216	2 2	2 2	2	2 2	0.74795	2 5	35,046	2	2.5	2
2.4 & Trichlorophonol	107	2 2		2 2	2 2	0.74795	2 2	35,045	2 9	1	2
	161	2	<u>Ş</u>	2	2	0.74730	2	25,040	2	1	2

TABLE A-13. AEC - SVOC COMPOSITE RUN NO. 1-2 DATA FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

	Molecular	Average Concentration -	Average Concentration -	Background - Concentration,	Background Corrected Concentration	Dilution Correction	Concentration .	Initial Plume	Sample Total Material - Run	Number of	Corrected Emission Factor - Run 1
2 4 5. Trichlorophenol	weignt 107	Nadd 1-2, ppov	Run 1-2, mg/m	m/g/m	Hun 1-2, mg/m	Pactor (b), %	Hun 1-2, mg/m	Volume, IT	7-2, ID	smen .	Z, IDVITORI
Isosafrole	162	S	2	2	Q	0.74795	9	35,046	2	2.5	202
2-Chloronaphthalene	163	QN	QN	ND	QN	0.74795	QN	35,046	QN	2.5	Q
2-Nitroaniline	138	QN	QN	QN	QN	0.74795	ND	35,046	QN	2.5	QN
1,4-Naphthoquinone	158	QV	QN	Q	QN	0.74795	QV	35,046	QN	2.5	QN
Dimethylphthalate	194	S S	Q	S	Q	0.74795	Q	35,046	Q	2.5	Q
1,3-Dinitrobenzene	168	Q	Q	ND	Q	0.74795	QN	35,046	QN	2.5	QN
2,6-Dinitrotoluene	182	Q	Q	Q	Q	0.74795	QN	35,046	ON	2.5	QN
Acenaphthylene	152	Q	QN	2	QN	0.74795	ON	35,046	QN	2.5	QN
3-Nitroaniline	138	Q	QV	Q	QV	0.74795	ND	35,046	QN	2.5	QN
4-Nitrophenol	139	S	QN	ND	QN	0.74795	QN	35,046	ON	2.5	QN
2,4-Dinitrophenol	184	8	Q	ND	Q	0.74795	QN	35,046	QN	2.5	QN
Acenaphthene	154	9	Q	Q	QN	0.74795	QN	35,046	ΔN	2.5	Q
2,4-Dinitrotoluene	182	2	Q	Q	QN	0.74795	QN	35,046	QN	2.5	ND
Dibenzoturan	168	QV.	Q	9	QN	0.74795	QV	35,046	QN	2.5	Q
Pentachlorobenzene	250	Q	Q	2	Q	0.74795	QN	35,046	QN	2.5	Q
1-Naphthylamine	143	Q.	Q.	Q	Q	0.74795	Q	35,046	Q	2.5	Q
Z-Naphthylamine	143	Q.	Q	9	Q	0.74795	Q	35,046	QN	2.5	Q
2,3,4,6- I etrachiorophenol	232	Q I		9	QN	0.74795	Q	35,046	Q	2.5	Q
Zennyphinalate	777	620.0	2.2/8E-04	2	2.278E-04	0.74795	3.045E-04	35,046	6.662E-07	2.5	2.665E-07
4-Cindioprieriyprieriyi etrier	202	2 2	Z S	2 5	ON S	0.74795	Q S	35,046	Q	2.5	2
FINDERING CALIFORNIA	200	2 9	2 5	2	2	0.74795	QV .	35,046	2	2.5	2
Selfanoriles	700	2 2	2 2	2	2	0.74795	ON	35,046	2	2.5	2
4-Nitroannine 4 6-Dioitro-2-methylobenol	138	2 2	2 5	2 2	2 2	0.74795	2	35,046	2	2.5	2
Diphenylamine/N-NitrosonPA	160	2 5	2 2	2 2	2 2	0.74795	2 2	35,046	2 9	5.5	2
sym-Trinitrobenzene	213	2 5	2 5	2 2	2 2	0.74795	2 5	35,046	2 2	2.5	2 2
Diallate	270	Q	S	CN	S	0.74795	2 2	35,046	2 5	2.5	2 2
Phenacetin	179	9	2	Q	Q	0.74795	S	35.046	2 2	2.5	Ę
4-Bromophenylphenyl ether	249	Q	2	2	2	0.74795	Q	35.046	S	2.5	2
Hexachlorobenzene	285	QV	Q	QN	Q	0.74795	2	35.046	Q	2.5	2
4-Aminobiphenyl	169	QN	QN	QN	QV	0.74795	Q	35,046	Q	2.5	Q
Pronamide	228	QN	QN	QN	QN	0.74795	ON	35,046	ON	2.5	QN
Pentachlorophenol	566	Q	2	Q	S	0.74795	Q	35,046	Q	2.5	Q
Pentachloronitrobenzene	295	Q	2	2	Ð	0.74795	Q	35,046	Q	2.5	QN
rnenantnrene	178	2	2	2	2	0.74795	2	35,046	9	2.5	Q
Anumacene	1/8	2 2	2 9	2	2	0.74795	2	35,046	2	2.5	2
Di-n-butylohthalate	278	0 131	1 515E-03	2 2	ND 4 6465-03	0.74795	ND	35,046	NO. 1	2.5	NO POE
4-Nitroguinoline-1-oxide	190	CN	S CN	2 2	NO ON	0.747.05	AND AND	35,046	4.431E-00	5.5	07.72
Methapyrilene	261	2	2	2 2	2	0.74795	2 5	35.046	2 2	2.5	2 2
Fluoranthene	202	Q	S	2	2	0.74795	Q	35,046	S	2.5	S
Benzidine	184	QN	Q	Q	Q	0.74795	Ð	35,046	Q	2.5	2
Pyrene	202	QN	ON	QN	QN	0.74795	QN	35,046	QV	2.5	Q
p-Dimethylaminoazobenzene	225	Q	Q	ON	ŅD	0.74795	QN	35,046	QN	2.5	2
Chlorobenzilate	325	Q	QV	QV	Q	0.74795	QN	35,046	QN	2.5	ON
Kepone	491	QN	Q	2	Q	0.74795	Q	35,046	QV	2.5	ON
outyben zyipi malate 3.3. Dimothylboraidioo	312	0.0/3	1.028E-03	2	1.028E-03	0.74795	1.375E-03	35,046	3.008E-06	2.5	1.203E-06
2.4 Cetylaminofluorene	212	25	2 2	2 2	Q	0.74795	2 2	35,046	9	2.5	2
Z-Acetyranını lonusi erile	560	ן ביי	QN QN	ON O	N N	0.74795	N N	35,045	N D	2.5	0

TABLE A-13. AEC - SVOC COMPOSITE RUN NO. 1-2 DATA FOR SIMULATOR GROUND BURST TEST (30 MARCH 1998)

Molecular Average Background Corrected Corre									,			
Molecular Concentration council Concentration concentration Concentration concentration Concentration council Initial Plume council			Average	Average	Background -	Background Corrected	Dilution	Corrected		Sample Total		Corrected Emission
ound Weight Run 1-2, pgbv Run 1-2, mg/m³ mg/m³ Run 1-2, mg/m³ Factor (b), % Run 1-2, mg/m³ Volume, ff³ 1e 391 0.047 7.684E.04 2.139E.02 -2.062E.02 0.74795 ND 35.046 228 ND ND ND ND ND 0.74795 ND 35.046 228 ND ND ND ND ND 0.74795 ND 35.046 391 0.012 1.924E.04 ND 0.74795 ND 35.046 30 228 ND ND ND ND 0.74795 ND 35.046 31 2.62 ND ND ND ND ND 0.74795 ND 35.046 31 2.62 ND ND ND ND ND 0.74795 ND 35.046 31 2.62 ND ND ND ND ND 0.74795 ND 35.046 32 <t< th=""><th></th><th>Molecular</th><th>Concentration -</th><th>Concentration -</th><th>Concentration,</th><th>Concentration -</th><th>Correction</th><th>Concentration -</th><th>Initial Plume</th><th>Material - Run</th><th>Number of</th><th>Number of Factor - Run 1</th></t<>		Molecular	Concentration -	Concentration -	Concentration,	Concentration -	Correction	Concentration -	Initial Plume	Material - Run	Number of	Number of Factor - Run 1
(te 391 0.047 7.684E.04 2.139E.02 -2.062E.02 0.74795 ND 35.046 228 ND ND ND ND ND 0.74795 ND 35.046 228 ND ND ND ND 0.74795 ND 35.046 331 0.012 1.924E.04 ND 0.74795 ND 35.046 31 0.012 1.924E.04 ND 0.74795 ND 35.046 31 256 ND ND ND ND 0.74795 ND 35.046 31 252 ND ND ND ND ND 0.74795 ND 35.046 32 252 ND ND ND ND ND 0.74795 ND 35.046 32 268 ND ND ND ND 0.74795 ND 35.046 4 ND ND ND 0.74795 ND 35.046	Compound	Weight	Run 1-2, ppbv	7	mg/m³	Run 1-2, mg/m³	Factor (b), %	Run 1-2, mg/m ³	Volume, ft	1-2, lb	Items	2, lb/item
1974 1975	(2-Ethylhexyl)phthalate	391	0.047	7.684E-04	2.139E-02	-2.062E-02	0.74795	QN	35,046	ND	2.5	QN
1974 1975 1974 1975	3-Dichlorobenzidine	253	Q.	9	QN	QN	0.74795	ON	35,046	ON	2.5	Q
1,000 1,00	nz(a)anthracene	228	QN	Q	Q	Q	0.74795	QN	35,046	ON	2.5	Q
1,324E.04 ND 1,924E.04 0,74795 2,572E.04 35,046 1,324E.04 ND ND ND 0,74795 ND 35,046 1,324E.04 ND ND ND ND ND ND 0,74795 ND 35,046 1,324E.04 ND ND ND ND ND ND ND 0,74795 ND 35,046 1,324E.04 ND ND ND ND ND ND 0,74795 ND 35,046 1,324E.04 ND ND ND ND ND ND ND 0,74795 ND 35,046 1,324E.04 ND ND ND ND ND ND ND 0,74795 ND 35,046 1,324E.04 ND ND ND ND ND ND ND N	INSENE	228	QN	QN	QV	Q	0.74795	QN	35,046	QN	2.5	ON
National 1956 National Na	n-octylphthalate	391	0.012	1.924E-04	Q	1.924E-04	0.74795	2.572E-04	35,046	5.628E-07	2.5	2.251E-07
1) 252 ND ND ND ND 0,74795 ND 35,046 1) 252 ND ND ND 0,74795 ND 35,046 1) 252 ND ND ND 0,74795 ND 35,046 253 ND ND ND ND 0,74795 ND 35,046 254 ND ND ND ND 0,74795 ND 35,046 255 ND 35,046 ND ND ND 0,74795 ND 35,046 255 ND 35,046 ND ND ND 0,74795 ND 35,046 255 ND 35,046 ND ND ND ND 0,74795 ND 35,046 255 ND 35,046 ND ND ND ND 0,74795 ND 35,046 255 ND ND ND ND ND ND 0,74795 ND 35,046 255 ND 35,046 ND ND ND ND 0,74795 ND 35,046 255 ND ND ND ND ND ND 0,74795 ND 35,046 255 ND 35,046 ND ND ND ND 0,74795 ND 35,046 255 ND 35,046 ND ND ND ND 0,74795 ND 35,046 255 ND 35,046 ND ND ND ND 0,74795 ND 35,046 255 ND ND ND ND ND ND 0,74795 ND 35,046 255 ND ND ND ND ND ND 0,74795 ND 35,046 255 ND ND ND ND ND ND 0,74795 ND 35,046 255 ND 35,046 ND ND ND 0,74795 ND 35,046 255 ND 35,046 ND ND ND ND 0,74795 ND 35,046 255 ND 35,046 ND ND ND ND 0,74795 ND 35,046 255 ND 35,046 ND ND ND ND ND ND ND N	2-Dimethylbenz(a)anthracene	256	S.	2	Q	QN	0.74795	QN	35,046	QN	2.5	QN
1	nzo(b)fluoranthene (a)	252	QN	QN	Q	Q	0.74795	QN	35,046	QN	2.5	Q
252 ND ND ND ND ND 0.74795 ND 35,046 ND 2.74795 ND 35,046 ND 2.74795 ND 35,046 ND 0.74795 ND 35,046 ND	nzo(k)fluoranthene (a)	252	Ð	2	Q	QN	0.74795	QN	35,046	ND	2.5	Q
268 ND ND ND ND ND 35,046 276 ND ND ND ND 35,046 ND 278 ND ND ND ND 35,046 ND 278 ND ND ND ND 35,046 ND 35,046 ND ND ND ND 35,046 ND	nz(a)pyrene	252	Q	9	Q	ND	0.74795	QN	35,046	QN	2.5	Q
276 ND ND ND ND 0,74795 ND 35,046 ND 278 ND 35,046 ND ND ND 0,74795 ND 35,046 ND ND ND ND 0,74795 ND 35,046 ND ND ND ND 0,74795 ND 35,046 ND	Methylcholanthrene	268	QV	2	QN	QN	0.74795	QN	35,046	ON	2.5	ON
278 ND ND ND ND 0.74795 ND 35,046 ND 0.74795 ND 35,046 ND ND ND 0.74795 ND 35,046 ND 0.74795 ND 35,046 ND ND ND ND 0.74795 ND 35,046 ND	Jeno(1,2,3-cd)pyrene	276	S	Q.	Q	Q	0.74795	QN	35,046	ND	2.5	QN
35,046 ND ND ND ND 35,046	penz(a,h)anthracene	278	QN	QN	ON	QN	0.74795	ON	35,046	QN	2.5	QN
	nzo(g,h,i)perylene	276	QN	QN	QN	QN	0.74795	ON	35,046	Q	2.5	QN

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers. b Estimated from tracer data as presented in Volume IV.

GREEN STAR CLUSTER

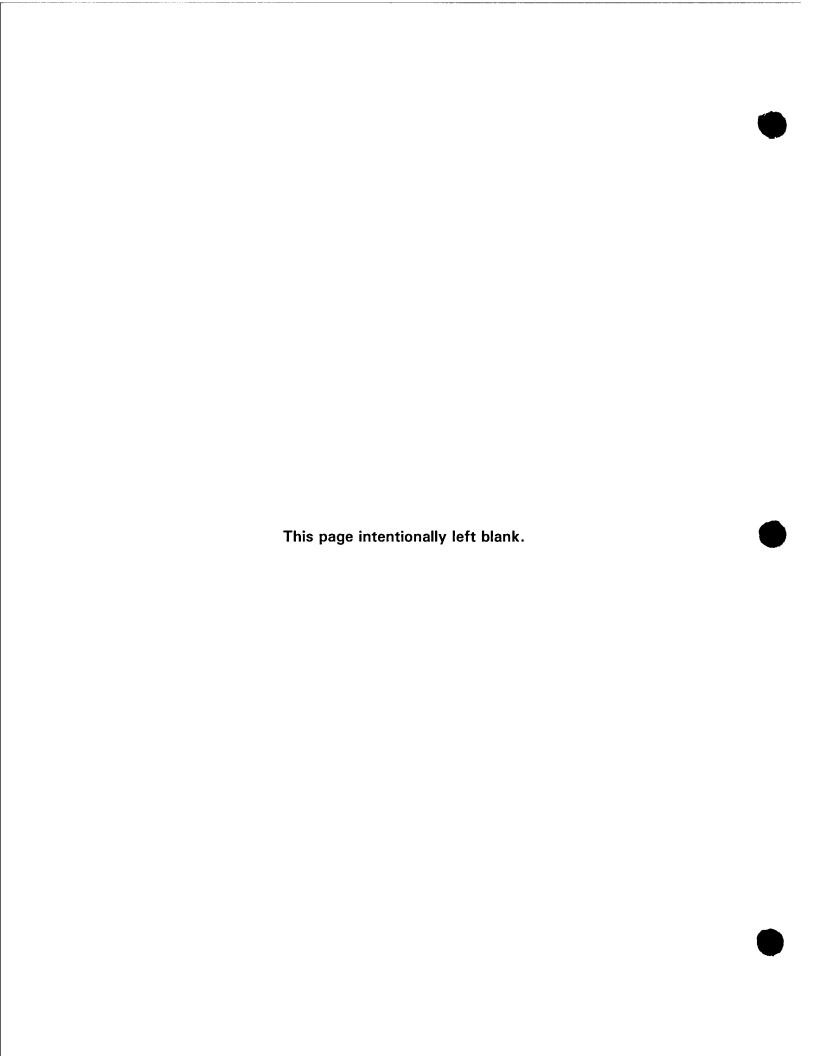


TABLE A-1. AEC MUNITION ITEM INPUT DATA SHEET (31 MARCH 1998)

Munition Item: Green Star Cluster Created by: Radian International LLC

Sample Volumes:	Run	No. 1	Run	No. 2	Run	No. 3	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(ft³)
TSP	726.9	903.9	NA	NA	NA	NA	815.36
PM ₁₀	436.2	453.3	NA	NA	NA	NA	444.78
Metals	726.9	903.9	NA	NA	NA	NA	815.36
VOCs	NA						
SVOCs	90.2	73.8	NA	NA	NA	NA	81.99
HCI/CI₂	28.8	23.2	NA	NA	NA	NA	26.01
Energetics	NA						
Dioxin/Furan	116.8	109.8	NA	NA	NA	NA	113.28
Residue	NA						
CEM	NA						

Sample Volumes:	Run	No. 1	Run	No. 2	Run	No. 3	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(mL)
HCI/CI ₂ (H ₂ SO ₄)	47.5	51.5	NA	NA	NA	NA	49.50
HCI/CI₂ (NaOH)	42.0	42.0	NA	NA	NA	NA	42.00

Sample Weight Gain:	Run I	No. 1	Run	No. 2	Run	No. 3	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(g) a
TSP	0.6996	0.7025	NA	NA	NA	NA	0.7011
PM ₁₀	0.3056	0.3914	NA	NA	NA	NA	0.3485

Dilution Correction Factors:	Run No. 1	Run No. 2	Run No. 3	Average
TSP	0.8827	NA	NA	0.8827
PM ₁₀	0.9370	NA	NA	0.9370
Metals	0.8827	NA	NA	0.8827
VOCs	0.9595	NA	NA	0.9595
SVOCs	0.8827	NA	NA	0.8827
HCI/CI ₂	0.8827	NA	NA	0.8827
Energetics	NA	NA	NA	NA
Dioxin/Furan	0.8827	NA	NA	0.8827
Residue	NA	NA	NA	NA
CEM	0.8865	NA	NA	0.8865

	Run No. 1	Run No. 2	Run No. 3	Average
Initial Plume Volume (m³)	979.83	NA	NA	979.83
Net Explosive Weight (g)	757.05	NA	NA	757.05

TABLE A-2. AEC BACKGROUND INPUT DATA SHEET (31 MARCH 1998)

Munition Item: Green Star Cluster Created by: Radian International LLC

Sample Volumes:	WP - Bac	kground	Reager	nt Blank	Field	Blank	Average
No. 1	Train A	Train B	Train A	Train B	Train A	Train B	(ft³)
TSP	1360.6	NA	NA	NA	NA	NA	1360.64
PM ₁₀	1008.5	NA	NA	NA	NA	NA	1008.45
Metals	1360.6	NA	NA	NA	NA	NA	1360.64
VOCs	NA	NA	NA	NA	NA	NA	NA
SVOCs	117.9	NA	NA	NA	NA	NA	117.90
HCI/CI₂	29.9	NA	NA	NA	NA	NA	29.93
Energetics	NA	NA	NA	NA	NA	NA	NA
Dioxin/Furan	156.5	NA	NA	NA	NA	NA	156.49
Residue	NA	NA	NA	NA	NA	NA	NA
CEM	NA	NA	NA	NA	NA	NA	NA

Sample Volumes:	WP - Ba	ckground	Reager	nt Blank	Field	Blank	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(mL)
HCI/Cl ₂ (H ₂ SO ₄)	42.5	, NA	107.2	NA	45.3	NA	42.50
HCI/Cl ₂ (NaOH)	37.0	NA	92.0	NA	41.5	NA	37.00
HCI/CI ₂ (H ₂ O)	NA	NA	100.0	NA	NA	NA	NA

Sample Weight Gain:	WP - Bad	kground	Reagen	t Blank	Field	Blank	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(g)
TSP	0.0015	NA	-0.0026	NA	-0.0037	NA	0.0015
PM ₁₀	0.0027	NA	-0.0002	NA	-0.0029	NA	0.0027

TABLE A.3. AEC • 15P, PM, HCVCI, DIOXIN/FURAN, CO, CO, NOX, SO, AND METALS DATA EVALUATION FOR GREEN STAR CLUSTER TEST (31 MARCH 1998)

	Average	Average Concentration -	Average Background - Concentration	Average Maximum Detection Limit - Concentration.	Average Minimum Detection Limit - Concentration.	Background	Minimum Detection Limit Evaluation	Background	Minimum Detection Limit Evaluation
Compound	Run 1, mg/m²	Run 1, mg/m²	_ mg/m³	mg/m³	mg/m³	Criteria	Criteria	Notes	Notes
007/200									
TSP	3.072E+01	3.072E+01	3.893E-02	Q	QN	789.05	10.00	A	A
PM ₁₀	2.762E+01	2.762E+01	9.455E-02	QN	ON	292.07	10.00	٧	∢
Hydrogen Chloride (HCI)/Chlorine (CL)	7 185E.00	7 165E-02	CN	7 764F-02	7.164E-02	10.00	1.00	A	٥
S. CO	1.748E-02	1.748E-02	1.380E-02	1.724E-03	1.724E-03	1.27	10.14	٥	A
Dioxin/Furan								,	•
Dioxin TEQ (a)	2.664E-10	2.664E-10	1.512E-10	2	Q	1.76	10.00	2	4
Continuous Emissions Monitoring (CEM) System	ystem								•
Carbon Monoxide (CO)	4.242E+00	4.242E+00	2.661E-01	Q	Q	15.94	10:00	V.	∢.
Nitrogen Oxide (NOx)	6.984E-01	6.984E-01	4.099E-02	QN	2	17.04	10:00	V C	∢ .
HCI	6.057E-02	6.057E-02	9.941E-02	Q	9	0.61	10:00	.	۷.
Carbon Dioxide (CO ₂)	7.272E+02	7.272E+02	6.695E+02	ND	QV	1.09	10.00	۵	∢
Sulfur Dioxide (SO ₂)	2.268E-03	2.268E-03	2.445E-03	QN	ND	0.93	10.00	ш	∢
Particulate-phase Metals									
Aluminum	1.011E-02	1.011E-02	NA (b)	7.712E-04	6.953E-04	NA (b)	14.53	NA (b)	۷
Antimony	5.252E-04	5.252E-04	NA (b)	1.108E-04	9.990E-05	NA (b)	5.26	NA (b)	8
Arsenic	QV	QN	NA (b)	7.591E-05	6.862E-05	NA (b)	2	NA (b)	_
Barium	5.109E-01	5.109E-01	NA (b)	8.441E-06	7.621E-06	NA (b)	67036.65	NA (b)	۷
Beryllium	6.956E-06	6.956E-06	NA (b)	4.676E-06	4.221E-06	NA (b)	1.65	NA (b)	٥
Cadmium	3.421E-05	3.421E-05	NA (b)	9.382E-06	8.471E-06	NA (b)	4.04	NA (b)	S
Chromium	2.643E-03	2.643E-03	NA (b)	1.658E-05	1.494E-05	NA (b)	176.95	NA (b)	٨
Cobalt	3.134E-04	3.134E-04	NA (b)	1.658E-05	1.494E-05	NA (b)	20.98	NA (b)	V
Copper	3.929E-03	3.929E-03	NA (b)	4.069E-05	3.674E-05	NA (b)	106.95	NA (b)	∢
Lead	7.961E-04	7.961E-04	NA (b)	6.255E-05	5.648E-05	NA (b)	14.10	NA (b)	¥
Magnesium	3.118E+00	3.118E+00	NA (b)	1.618E-04	1.460E-04	NA (b)	21350.88	NA (b)	A
Mandanese	6.595E-03	6.595E-03	NA (b)	7.196E-06	6.498E-06	NA (b)	1015.01	NA (b)	A
Nickel	1.989E-04	1.989E-04	NA (b)	2.532E-05	2.283E-05	NA (b)	8.71	NA (b)	8
Phosoporus	2.547E-03	2.547E-03	NA (b)	1.779E-04	1.603E-04	NA (b)	15.88	NA (b)	¥
Selenium	Ð	Q	NA (b)	6.042E-05	5.435E-05	NA (b)	ND	NA (b)	L
Silver	2	9	NA (b)	1.126E-05	1.014E-05	NA (b)	S	NA (b)	<u>.</u>
Thallium	QN	QN	NA (b)	1.427E-04	1.284E-04	NA (b)	Q	NA (b)	<u>.</u>
Zinc	6.875E-03	6.875E-03	NA (b)	1.354E-04	1.221E-04	NA (b)	56.32	NA (b)	4
Mercury	3.323E-06	3.323E-06	NA (b)	1.081E-06	3.097E-07	NA (b)	10.73	NA (b)	A

a Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD.

Insufficient material to analyze.

A = Identified as a contaminant (greater than or equal to 10 times background or minimum MQL)
B = Likely contaminant (less than 10 and greater than or equal to 5 times background or minimum MQL)
C = Probable contaminant (less than 5 and greater than or equal to 2 times background or minimum MQL)
D = Measured, but accuracy or presence questionable (less than 2 and greater than or equal to 1 times background or minimum MQL)
F = Not considered a contaminant (less than 1 times background or minimum MQL)

TABLE A-4. AEC - TSP, PM₁₀, HCVCl₂, DIOXIN/FURAN, CO, CO₂, NOX, SO₂, AND METALS RUN NO. 1 DATA FOR GREEN STAR CLUSTER TEST (31 MARCH 1998)

And the second of the second o	A STATE OF THE STA	A CONTRACT OF THE PROPERTY OF	ASSAGE THE STATE	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				N. A. Share Total Co.	A Section Section	Convert Sec.	
		Average	Average	Background -	Background Corrected	Dilution	Corrected		Sample Total		Corrected
Compound	Molecular Weight	Concentration - Run 1, ppbv	Concentration - Run 1, mg/m³	Concentration, mg/m³	Concentration - Run 1, mg/m³	Correction Factor (a), %	Concentration - Run 1, mg/m³	Initial Plume Volume, ft³	Material - Run 1. Ib	Number of	Factor - Run 1. Ib/Item
Particulate											
TSP	•	•	3.072E+01	3.893E-02	3.068E+01	0.8827	3.476E+01	34,602	7.508E-02	1	7.508E-02
PM ₁₀	•	•	2.762E+01	9.455E-02	2.752E+01	0.9370	2.937E+01	34,602	6.345E-02	1	6.345E-02
Hydrogen Chloride (HCI)/Chlorine (CI,)											
HCI (b)	36	47.237	7.165E-02	ON	7.165E-02	0.8827	8.117E-02	34,602	1.753E-04	1	1.753E-04
Cl ₂ (b)	7.	5.927	1.748E-02	1.380E-02	3.677E-03	0.8827	4.166E-03	34,602	8.998E-06	1	8.998E-06
Control of the Contro			0.0000	0, 10,4	0, 101,	-000					
CIOXIII IEC (c)			2.564E-10	1.512E-10	1.152E-10	0.8827	1.306E-10	34,602	2.820E-13	1	2.820E-13
Continuous Emissions Monitoring (CEM) System											
Cathon Monovide (CC)	, c	2640 440	00 3070 7	2004	00 1000	1000	00 4000				
Nitrogo Ocido (NOS)	97	264 000	4.2425+00	4.000F-01	3.9/05+00	0.8805	4.485E+00	34,602	9.689E-03		9.689E-03
Mingell Oxide (NOX)	ş	304.300	6.984E-01	4.099E-02	6.5/4E-01	0.8865	7.416E-01	34,602	1.602E-03	-	1.602E-03
HCI (0)	8	40.446	6.057E-02	9.941E-02	-3.884E-02	0.8865	QN	34,602	Q	-	2
Carbon Dioxide (CO ₂)	44	397292.400	7.272E+02	6.695E+02	5.768E+01	0.8865	6.507E+01	34,602	1.406E-01	1	1.406E-01
Sulfur Dioxide (SO ₂)	8	0.852	2.268E-03	2.445E-03	-1.771E-04	0.8865	QN	34,602	Q	-	2
Particulate-phase Metals											
Aluminum	27	8.998	1.011E-02	NA (d)	1.011E-02	0.8827	1.145E-02	34,602	2.473E-05	-	2.473E-05
Antimony	122	0.103	5.252E-04	NA (d)	5.252E-04	0.8827	5.949E-04	34,602	1.285E-06	-	1.285E-06
Arsenic	75	Q	QN	NA (d)	QN	0.8827	ND	34,602	QN	1	Q
Banum	137	89.645	5.109E-01	NA (d)	5.109E-01	0.8827	5.788E-01	34,602	1.250E-03	1	1.250E-03
Beryllium	6	0.019	6.956E-06	NA (d)	6.956E-06	0.8827	7.880E-06	34,602	1.702E-08	1	1.702E-08
Cadmium	112	0.007	3.421E-05	NA (d)	3.421E-05	0.8827	3.875E-05	34,602	8.372E-08	-	8.372E-08
Chramium	52	1.222	2.643E-03	NA (d)	2.643E-03	0.8827	2.995E-03	34,602	6.469E-06	1	6.469E-06
Cobait	29	0.128	3.134E-04	NA (d)	3.134E-04	0.8827	3.550E-04	34,602	7.668E-07	. 1	7.668E-07
Copper	28	1.476	3.929E-03	NA (d)	3.929E-03	0.8827	4.452E-03	34,602	9.616E-06	1	9.616E-06
Lead	207	0.092	7.961E-04	NA (d)	7.961E-04	0.8827	9.019E-04	34,602	1.948E-06		1.948E-06
Magnesium	24	3123.264	3.118E+00	NA (d)	3.118E+00	0.8827	3.533E+00	34,602	7.631E-03	1	7.631E-03
Manganese	55	2.883	6.595E-03	NA (d)	6.595E-03	0.8827	7.472E-03	34,602	1.614E-05	1	1.614E-05
Nickel	59	0.081	1.989E-04	(d)	1.989E-04	0.8827	2.254E-04	34,602	4.868E-07	-	4.868E-07
Phosphorus	31	1.975	2.547E-03	NA (d)	2.547E-03	0.8827	2.885E-03	34,602	6.232E-06	-	6.232E-06
Selenium	79	QV	QN	NA (d)	QN	0.8827	ON	34,602	Q	-	Q
Silver	108	QN	ON	NA (d)	QN	0.8827	ON	34,602	2	-	Q
Thallium	20 4	QV	QN	NA (d)	ON	0.8827	DN	34,602	QN	1	Q
Zinc	9	2.543	6.875E-03	NA (d)	6.875E-03	0.8827	7.789E-03	34,602	1.682E-05	1	1.682E-05
Mercury	201	0.000	3.323E-06	NA (d)	3.323E-06	0.8827	3.765E-06	34,602	8.133E-09	1	8.133E-09

a Estimated from tracer data as presented in Volume IV.

b HCVCl₂ levels were too low to be reliably measured.

c Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD. Presence questionable - reported at similar levels in samples and blanks.

d Insufficient material to analzye.

TABLE A-5. AEC - VOC DATA EVALUATION FOR GREEN STAR CLUSTER TEST (31 MARCH 1998)

Total Nonmethane Hydrocarbons (TNMHC) 1.486	1.486E-01	Concentration - Run 1, mg/m³	Background - Concentration, mg/m³	Detection Limit • Concentration, mg/m³	Detection Limit - Concentration, mg/m²	Background Evaluation Criteria	Detection Limit Evaluation Criteria	Background Evaluation Notes	Detection Limit Evaluation Notes
	86E-01								
Organic Compounds (VOCs)		1.486E-01	3.600E-02	1.000E-04	1.000E-04	4.13	1486.00	O	۷
	5.700E-03	5.700E-03	2.800E-03	1.000E-04	1.000E-04	2.04	67.00	O	A
	2.380E-02	2.380E-02	2.000E-04	1.000E-04	1.000E-04	119.00	238.00	A	A
	2.570E-02	2.570E-02	8.000E-04	1.000E-04	1.000E-04	32.13	257.00	A	Α
	2.400E-03	2.400E-03	1.300E-03	1.000E-04	1.000E-04	1.85	24.00	O	A
	8.300E-03	8.300E-03	ON	1.000E-04	1.000E-04	10.00	83.00	¥	Α
	3.000E-04	3.000E-04	3.000E-04	1.000E-04	1.000E-04	1.00	3.00	۵	ပ
	7.000E-04	7.000E-04	QN	1.000E-04	1.000E-04	10.00	7.00	A	В
	1.300E-03	1.300E-03	ON	1.000E-04	1.000E-04	10.00	13.00	¥	Α
iene	1.600E-03	1.600E-03	QN	1.000E-04	1.000E-04	10.00	16.00	A	A
	7.000E-04	7.000E-04	5.000E-04	1.000E-04	1.000E-04	1.40	7.00	٥	В
	1.400E-03	1.400E-03	QN	1.000E-04	1.000E-04	10.00	14.00	A	A
propane	Q	Q	Q.	1.000E-04	1.000E-04	Q	Q	ш	ш
	4.000E-04	4.000E-04	Q	1.000E-04	1.000E-04	10.00	4.00	A	ပ
i-butene	1.000E-04	1.000E-04	Q	1.000E-04	1.000E-04	10.00	1.00	A	۵
	5.000E-04	5.000E-04	8.000E-04	1.000E-04	1.000E-04	0.63	2.00	ட	В
	2.000E-04	2.000E-04	Q.	1.000E-04	1.000E-04	10.00	2.00	A	ပ
-butene	2.000E-04	2.000E-04	Q	1.000E-04	1.000E-04	10.00	2:00	٨	ပ
0	8.000E-04	8.000E-04	8.000E-04	1.000E-04	1.000E-04	1.00	8.00	ام	8
	Q	2	Q	1.000E-04	1.000E-04	Q	Q	ш	ட
Je.	Q	9	Q	1.000E-04	1.000E-04	2	2	4	L.
	Q	Q	Q	1.000E-04	1.000E-04	Q	Q	ш	Ł
	Q	9	Ω	1.000E-04	1.000E-04	Q	Q	ц.	ட
2,2-Dimethylbutane 1.000	1.000E-04	1.000E-04	1.000E-04	1.000E-04	1.000E-04	1.00	1.00	٥	٥
	Q	Q	ND	1.000E-04	1.000E-04	2	2	L	L.
ntene	QN	2	Q	1.000E-04	1.000E-04	Q	Q	ட	ட
	Q	2	1.000E-04	1.000E-04	1.000E-04	2	2	LL	u.
	4.000E-04	4.000E-04	3.000E-04	1.000E-04	1.000E-04	1.33	4.00	۵	၁
intene	QQ	Q	ND	1.000E-04	1.000E-04	Q	Q	Ъ	Ŀ
	7.000E-04	7.000E-04	7.000E-04	1.000E-04	1.000E-04	1.00	7.00	۵	В
	8.000E-04	8.000E-04	5.000E-04	1.000E-04	1.000E-04	1.60	8.00	O	В
I-pentene	Q	Q	ND	1.000E-04	1.000E-04	Q	2	Щ	ш
1-Hexene 1.000	1.000E-03	1.000E-03	ND	1.000E-04	1.000E-04	10.00	10.00	A	A
n-Hexane 7.000	7.000E-04	7.000E-04	7.000E-04	1.000E-04	1.000E-04	1.00	7.00	۵	В
	Q	Q	ND	1.000E-04	1.000E-04	ND	Q	ш	ட
2-Methyl-2-pentene N	QN	ON	DN	1.000E-04	1.000E-04	ND	QN	Ш	L.
	ND	QN	ND	1.000E-04	1.000E-04	ND	QN	Т	ட
	3.000E-04	3.000E-04	3.000E-04	1.000E-04	1.000E-04	1.00	3.00	۵	ပ
	8.000E-04	8.000E-04	7.000E-04	1.000E-04	1.000E-04	1.14	8.00	۵	æ

TABLE A-5. AEC - VOC DATA EVALUATION FOR GREEN STAR CLUSTER TEST (31 MARCH 1998)

Concentration	- Concentration - Run 1, mg/m³	Background -	Detection Limit - Detection Limit -	Detection Limit -	Background	Detection Limit	Background	Detection Limit
8.500E-03 8.500E-03 2.000E-04 ND ND ND ND 2.900E-03 3.000E-04 2.000E-04 3.000E-04 3.000E	-	oncentration, mg/m³	Concentration, mg/m³	Concentration, mg/m³	Evaluation Criteria	Evaluation Criteria	Evaluation Notes	Evaluation Notes
2.000E-04		1.000E-03	1.000E-04	1.000E-04	8.50	85.00	В	A
ND N		2.000E-04	1.000E-04	1.000E-04	1.00	2.00	٥	ပ
ND ND ND 2.900E-03 2.900E-03 3.000E-04 3.000E-04 ND ND ND 2.000E-04 2.000E-04 ND ND ND 3.000E-04 3.000E-04 7.000E-04 8.000E-04 7.000E-04 8.000E-04 4.000E-04 1.100E-03 1.100E-03 1.100E-03 1.100E-03 1.100E-04 4.000E-04 4.000E-04 4.000E-04 1.000E-04		3.000E-04	1.000E-04	1.000E-04	ON	QN	ш	L.
ND ND ND ND ND ND ND S.000E-04 3.000E-04 ND		1.500E-03	1.000E-04	1.000E-04	ND	QΝ	F	L
2.900E-03 2.900E-04 3.000E-04 3.000E-04 3.000E-04 2.000E-04 2.000E-04 3.000E-04 3.000E		4.000E-04	1.000E-04	1.000E-04	QN	ΩN	F	L.
3.000E-04 3.000E-04		2.900E-03	1.000E-04	1.000E-04	1.00	29.00	D	A
ND N		2.000E-04	1.000E-04	1.000E-04	1.50	3.00	D	ပ
2.000E-04 2.000E-04 ND ND ND ND ND ND ND N		QN	1.000E-04	1.000E-04	ND	QN	F	H
ND ND ND ND ND 2.000E-04 2.000E-04 3.000E-04 3.000E-04 7.000E-04 7.000E-04 7.000E-04 7.000E-04 ND		2.000E-04	1.000E-04	1.000E-04	1.00	2.00	D	ပ
2.000E-04 2.000E-04 3.000E-04 3.000E-04 3.000E-04 3.000E-04 7.000E-04 7.000E		DN	1.000E-04	1.000E-04	ON	QN	Ŀ	L
3.000E-04 3.000E-04		2.000E-04	1.000E-04	1.000E-04	1.00	2.00	D	၁
ane 7.000E-04 7.000E-04 7.000E-04 anitane 7.000E-04 7.000E-03 anitane 7.000E-04 7.000E-03 anitane ND	_	4.000E-04	1.000E-04	1.000E-04	0.75	3.00	Ŀ	O
ane ND	_	7.000E-04	1.000E-04	1.000E-04	1.00	7.00	D	83
ND	4.300E-03	2.200E-03	1.000E-04	1.000E-04	1.95	43.00	D	A
ane ND ND ND ane 2.000E-04 2.000E-04 2.000E-04 2.000E-04 2.000E-04 2.000E-04 3.000E-04 3.000E-04 3.000E-04 3.000E-04 4.000E-04 4.000E-04 3.000E-04 4.000E-04 3.000E-04 4.000E-04 4.000E-04 4.000E-04 4.000E-04 1.000E-04 3.000E-04 1.000E-04 4.000E-04 4.000E-04 4.000E-04 4.000E-04 A.000E-04 A.000E-04 A.000E-04 A.	2.000E-04	3.000E-04	1.000E-04	1.000E-04	0.67	2.00	ட	ပ
pitane ND ND Inexane 2.000E-04 2.000E-04 Inexane 2.000E-04 2.000E-04 Inexane 2.000E-04 2.000E-04 Inexane 5.000E-04 5.000E-04 Inexane 1.700E-03 1.700E-03 Inexane 1.700E-03 1.700E-03 Inexane 2.000E-04 4.000E-04 Inexane 2.000E-04 4.000E-04 Intercence 3.000E-04 4.000E-04 Introceron 4.000E-04 4.000E-04 Introceron 1.000E-04	QN	1.000E-04	1.000E-04	1.000E-04	QN	QN	ш	ட
hylheptane ND ND lethylhexane 2.000E-04 2.000E-04 lethylhexane 2.000E-04 2.000E-04 lethylhexane 0.000E-04 0.000E-04 lethylhexane 1.700E-03 1.700E-03 lethylhene 1.700E-03 1.700E-03 lethylhene 2.000E-04 4.000E-04 lethylhenzene 2.000E-04 4.000E-04 lethylhenzene 3.000E-04 4.000E-03 lethylhenzene 4.000E-04 4.000E-03 lethylhenzene 4.000E-04 4.000E-03 lethylhenzene 1.000E-04 4.000E-04 lethylhenzene 1.000E-04 1.000E-04		ND	1.000E-04	1.000E-04	Q	Q	L	ட
1.000E-04 2.000E-04 2.000E-04 E.000E-04 E.000E-04 E.000E-04 E.000E-04 E.000E-04 E.000E-04 E.000E-04 E.000E-04 E.000E-03 E.000E-03 E.000E-03 E.000E-03 E.000E-03 E.000E-04 E.00		ND	1.000E-04	1.000E-04	ND	ON	F	щ
hexane ND ND ND ND ene ene 5.000E-04 1.000E-04 1.000E-04 2.000E-04 1.000E-04 2.000E-04 1.000E-03 1.700E-03 1.700E-03 1.700E-04 1.000E-04	2.000E-04	1.000E-04	1.000E-04	1.000E-04	2.00	2.00	င	ပ
ND ND Schoel ND Zene 5.000E-04 5.000E-04 \$ pXylene 1.700E-03 1.700E-03 \$ pXylene 1.700E-04 7.000E-04 enzene 4.000E-04 8.000E-04 enzene 2.000E-04 4.000E-04 benzene 1.100E-03 1.100E-03 luene 5.000E-04 4.000E-04 nethylbenzene 4.000E-04 4.000E-04 nethylbenzene 4.000E-04 4.000E-04 nene ND ND ND ND sierene ND ND sierene ND ND ND ND ND sierene 4.000E-04 4.000E-04 ND ND ND sierene ND ND ND ND ND ND ND	2.000E-04	1.000E-04	1.000E-04	1.000E-04	2.00	2.00	ပ	O
zene 5,000E-04 5,000E-04 8 p-Xylene 1,700E-03 1,700E-03 7,000E-04 1,700E-04 1,700E-04 enzene 8,000E-04 8,000E-04 enzene 1,000E-04 4,000E-04 enzene 2,000E-04 4,000E-04 benzene 1,100E-03 1,100E-03 luene 1,100E-03 1,100E-03 methylbenzene 4,000E-04 4,000E-04 luene 1,000E-04 4,000E-04 nethylbenzene & sec-Butylbenzene 1,000E-04 1,000E-04 nene ND ND ND ND ND		Q	1.000E-04	1.000E-04	S	2	ш	ட
e. 8. p-Xylene 1.700E-03 1.700E-03 r.000E-04 7.000E-04 7.000E-04 enzene 4.000E-04 4.000E-04 enzene A.000E-04 4.000E-04 enzene ND ND enzene 1.100E-03 1.100E-03 luene 5.000E-04 5.000E-04 nethylbenzene 4.000E-04 4.000E-04 luene 4.000E-04 4.000E-04 nethylbenzene & sec-Butylbenzene 1.000E-04 4.000E-04 nene ND ND ND ND arene ND ND nene ND ND		2.000E-04	1.000E-04	1.000E-04	2.50	5.00	C	В
1.000E-04 7.000E-04 7.000E-04 8.000E-04 8.000E-04 8.000E-04 8.000E-04 4.000E-04 4.00		1.200E-03	1.000E-04	1.000E-04	1.42	17.00	۵	٨
enzene 8.000E-04 8.000E-04 enzene 4.000E-04 4.000E-04 benzene 2.000E-04 4.000E-04 luene 1.100E-03 1.100E-03 pluene 5.000E-04 5.000E-04 nethylbenzene 4.000E-04 4.000E-04 luene 4.000E-04 4.000E-04 nethylbenzene & sec-Butylbenzene 1.000E-04 4.000E-04 nene ND ND ND ND ND area Aroore-04 4.000E-04 ND ND Area ND ND Area Aroore-04 4.000E-04		Q	1.000E-04	1.000E-04	10.00	7.00	A	В
NOE-04 4,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-04 1,000E-03 1,000E-04 1,000E-	_	4.000E-04	1.000E-04	1.000E-04	2.00	8.00	ပ	В
Denzene		ND	1.000E-04	1.000E-04	10.00	4.00	Α	O
1,00E-04 2,000E-04 1,00E-03 1,100E-03 1,100E-03 1,100E-03 1,100E-03 1,100E-04 2,000E-04 2,000E		QQ	1.000E-04	1.000E-04	Q	Q	Ъ	ш
1,100E-03 1,100E-03 1,100E-03 1,100E-03 1,100E-04 1,100E-04 1,100E-04 1,000E-04 1,00	-	1.000E-04	1.000E-04	1.000E-04	2.00	2.00	ပ	S
timethylbenzene 5,000E-04 5,000E-04 imethylbenzene 4,000E-04 4,000E-04 interthylbenzene 8, sec-Butylbenzene 1,000E-03 1,000E-03 interthylbenzene 8, sec-Butylbenzene 1,000E-04 1,000E-03 interthylbenzene ND ND ND interthylbenzene 8, sec-Butylbenzene 1,000E-04 1,	1	3.000E-04	1.000E-04	1.000E-04	3.67	11.00	O	A
Inmethylbenzene 4,000E-04 4,000E-04 Ioluene 4,000E-04 4,000E-04 rimethylbenzene & sec-Butylbenzene 1,000E-03 1,000E-03 nimethylbenzene & sec-Butylbenzene ND ND nene ND ND carene ND ND carene ND ND nene 4,000E-04 4,000E-04 nene 4,000E-04 4,000E-04 ND ND ND		1.000E-04	1.000E-04	1.000E-04	5.00	5.00	В	8
innethylbenzene & sec-Butylbenzene 1,000E-04 4,000E-04 1,000E-03 1,000E-03 1,000E-04 1,000	+	Z.000E-04	1.000E-04	1.000E-04	2.00	00.4	ی د	٥ (
rimethylbenzene & sec-Butylbenzene 1.000E-03 1.000E-03 ne 1.000E-04 1.000E-04 linene ND ND nene ND ND Carene ND ND nene 4.000E-04 4.000E-04 ND ND ND ND ND ND ND ND ND	-	1.000E-04	1.000	1.0000	7	00.		>
ne 1,000E-04 1,000E-04 inene ND ND nene ND ND Carene ND ND nene 4,000E-04 4,000E-04 ND ND ND ND ND ND ND ND ND		6.000E-04	1.000E-04	1.000E-04	1.67	10.00	۵	∢
inene ND ND nene ND ND Carerine ND ND nene 4.000E-04 4.000E-04 ND ND ND	_	1.000E-04	1.000E-04	1.000E-04	1.00	1.00	D	٥
ND ND Carene ND ND nene 4.000E-04 4.000E-04 ND ND ND	:	QN.	1.000E-04	1.000E-04	QN	Q	ш.	ட
Carene ND ND nene 4.000E-04 4.000E-04 ND ND ND		QN	1.000E-04	1.000E-04	QN	QN	ட	ட
ND N		QN	1.000E-04	1.000E-04	ND	QN	F	
4,000E-04 4,000E-04 ND ND		ND	1.000E-04	1.000E-04	QN	QN	u.	ш
QN QN		4.000E-04	1.000E-04	1.000E-04	1.00	4.00	D	ပ
		QN	1.000E-04	1.000E-04	QN	QN	ட	ட
omethane 1.398E-03 1.398E-03 1.1	1	1.179E-03	4.992E-04	4.992E-04	1.19	2.80	ام	O I
MD ND ND ND		QN	2.080E-04	2.080E-04	QN	QN	_	1

TABLE A-5. AEC - VOC DATA EVALUATION FOR GREEN STAR CLUSTER TEST (31 MARCH 1998)

Compound (a)	Average Concentration - Run 1, mg/m³	Average Concentration - Run 1, mg/m³	Average Background - Concentration, mg/m³	Average Maximum Defection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m²	Background Evaluation Criteria	Minimum Detection Limit Evaluation Criteria	Background Evaluation Notes	Minimum Detection Limit Evaluation Notes
Dichlorotetrafluoroethane	QN	QN	QN	7.114E-04	7.114E-04	S	QN	ц.	u.
Chloroethene	Q	QN	S	2.621E-04	2.621E-04	Q	Q	ц.	ட
1,3-Butadiene	1.627E-03	1.627E-03	S	2.246E-04	2.246E-04	10.00	7.24	⋖	80
Methylbromide	QN	QN	Q	3.952E-04	3.952E-04	QN	QN	ш.	ш.
Ethylchloride	QN	QN	QN	2.683E-04	2.683E-04	QN	QN	4	щ
Trichloromonofluoromethane	2.495E-03	2.495E-03	2.434E-03	5.699E-04	5.699E-04	1.02	4.38	Δ	ပ
Vinylidenechloride	QN	QN	QN	4.035E-04	4.035E-04	QN	QN	Ш	Щ
Methylenechloride	4.153E-02	4.153E-02	2.283E-04	3.536E-04	3.536E-04	181.89	117.44	A	A
Allylchloride	QN	QN	QN	3.182E-04	3.182E-04	QN	QN	Ŧ	щ
1,1,2-Trichloro-1,2,2-trifluoroethane	8.335E-04	8.335E-04	8.665E-04	7.821E-04	7.821E-04	96.0	1.07	4	٥
1,1-Dichloroethane	QN	QN	2	4.118E-04	4.118E-04	Q	Q	u_	u.
1,2-Dichloroethene	g	Q	2	4.035E-04	4.035E-04	Q	2	u.	ш
Chloroform	Q.	QN	2	4.950E-04	4.950E-04	2	₽	ш	L
1,2-Dichloroethane	Q	QN	Q	4.118E-04	4.118E-04	QN	QN	Œ	Ŀ
Methylchloroform	3.759E-04	3.759E-04	3.490E-04	5.533E-04	5.533E-04	1.08	0.68	٥	ш
Benzene	8.646E-03	8.646E-03	1.017E-03	3.245E-04	3.245E-04	8.50	26.64	В	A
Carbontetrachloride	7.904E-04	7.904E-04	6.758E-04	6.406E-04	6.406E-04	1.17	1.23	۵	
1,2-Dichloropropane	S	Q	Q	4.701E-04	4.701E-04	QN	Q	lL.	L
Trichloroethylene	QN	QN	S	5.533E-04	5.533E-04	S	Q	ш	ш
cis 1,3-Dichloro-1-propene	QN	QN	Ð	4.618E-04	4.618E-04	Q	Q.	ш	ц.
trans 1,3-Dichloro-1-propene	QN	QN	QN	4.618E-04	4.618E-04	QN	Q	ц.	ட
1,1,2-Trichloroethane	QN	ON	ON	5.533E-04	5.533E-04	QN	QN	Ц.	ட
Toluene	4.374E-03	4.374E-03	2.238E-03	3.827E-04	3.827E-04	1.95	11.43	O	A
1,2-Dibromoethane	DN	QN	ON	7.821E-04	7.821E-04	QN	QN	ц	u.
Perchloroethylene	QN	ΩN	ON	6.906E-04	6.906E-04	QN	QN	4	Ł
Chlorobenzene	S	ON	DN	4.701E-04	4.701E-04	QN	QN	4	L.
Ethylbenzene	7.676E-04	7.676E-04	ON	6.656E-04	6.656E-04	10.00	1.15	A	D
m&p-Xylene	1.798E-03	1.798E-03	1.121E-03	4.410E-04	4.410E-04	1.60	4.08	۵	ပ
Styrene	2.975E-04	2.975E-04	2	4.326E-04	4.326E-04	10.00	69.0	A	Ľ.
1,1,2,2-Tetrachloroethane	Q	QN	Q	6.989E-04	6.989E-04	QN	ON	4	ட
o-Xylene	8.137E-04	8.137E-04	4.068E-04	4.410E-04	4.410E-04	2.00	1.85	ပ	٥
p-Ethyltoluene	3.914E-04	3.914E-04	Q	4.992E-04	4.992E-04	10.00	0.78	A	ட
1,3,5-Trimethylbenzene	2.552E-04	2.552E-04	Q.	4.992E-04	4.992E-04	10.00	0.51	∢	ட
1,2,4-Trimethylbenzene	8.568E-04	8.568E-04	5.425E-04	4.992E-04	4.992E-04	1.58	1.72	D	۵
Benzylchloride	Q	QV	QN	5.283E-04	5.283E-04	QN	QN	Ł	Ľ.
m-Dichlorobenzene	QN	QN	QN	6.115E-04	6.115E-04	QN	QN	ட	ш
p-Dichlorobenzene	ON	QN	QN	6.115E-04	6.115E-04	QN	QN	ш	ட
o-Dichlorobenzene	ON	QN	ND	6.115E-04	6.115E-04	QN	QN	ш.	щ
1,2,4-Trichlorobenzene	QN	QN	ND	7.530E-04	7.530E-04	ND	QN	Н	u.
Hexachlorobutadiene	Q	QN	QN	1.086E-03	1.086E-03	ND	QN	±	L
Phenylacetylene	2	QQ	ND	4.243E-04	4.243E-04	ND	QN	F	Ь
Indane	Q	ON	QN	4.909E-04	4.909E-04	QN	QN	u.	ц.
[2,3-Dihydro-1-methyl-1H-indene	ND	QV	ND	5.491E-04	5.491E-04	ND	2	Ł	LL.

TABLE A-5. AEC - VOC DATA EVALUATION FOR GREEN STAR CLUSTER TEST (31 MARCH 1998)

Compound (a) Contact and c		Average	Average	Average Background -	Average Maximum Detection Limit -	Average Minimum Detection Limit -	Background	Minimum Detection Limit	Background	Minimum Detection Limit
No. No. No. No. No. No. S.42E-04 S.22E-04 No.	Compound (a)	Concentration - Run 1, mg/m³	Concentration - Run 1, mg/m³	Concentration, mg/m³	Concentration, mg/m³	concentration, mg/m³	Evaluation Criteria	Evaluation Criteria	Evaluation Notes	Notes
1898EGQ 1308EGQ 1308EGQ 1,000EGQ 1	9 3-Dibydro-4-methyl-1H-indene	GN	QN	ND	5.491E-04	5.491E-04	QN	QN	ш	F
No. No. No. No. SynCed 5.007E-04 No. N	Naphthalene	1.393E-03	1.393E-03	4.069E-04	5.325E-04	5.325E-04	3.42	2.62	ပ	S
No. No. No. No. No. 1.590*E-04 5.00*E-04 No. No. No. No. No. 1.590*E-04 1.000*E-04 1.000*E-0	2-Methylnaphthalene	QN	QN	QN	5.907E-04	5.907E-04	QN	QN	ட	ட
1906-24 2006-04 2168E-04 2168E-04 10.00 1.59	1-Methylnaphthalene	QN	Q	QN.	5.907E-04	5.907E-04	QN	QN	ட	ட
1,000 1,00	Cyanogen	QN	QN	ON	2.163E-04	2.163E-04	QN	QN	ட	L.
1,000 1,00	Methylnitrite	4.034E-04	4.034E-04	QN	2.538E-04	2.538E-04	10.00	1.59	¥	۵
1900E-03 1,900E-04 ND 2,509E-04 1000 3.74	Acetonitrile	9.500E-04	9.500E-04	QN	1.706E-04	1.706E-04	10.00	5.57	4	В
100	Acrylonitrile	1.900E-03	1.900E-03	QN	2.205E-04	2.205E-04	10.00	8.62	4	В
ND	Nitromethane	9.490E-04	9.490E-04	QN	2.538E-04	2.538E-04	10.00	3.74	¥	ပ
NEW NEW NEW 2.870E-04 3.830E-04 NEW	Propanenitrile	QN	ND	QN	2.288E-04	2.288E-04	Q	2	ш	L 1
ND ND ND 3458E-04 3458E-04 ND ND ND ND ND ND A 1038E-04 A 1038E-04 ND ND ND ND ND ND ND A 1038E-04 A 1038E-04 ND ND ND ND ND ND A 1038E-04 A 1038E-04 ND ND ND ND ND ND A 1038E-04 A 1038E-04 ND ND ND ND ND ND ND N	2-Methylpropanenitrile	Q	QN	ON	2.870E-04	2.870E-04	Q	Q	ட	Ŀ
Signature	Pentanenitrile	QV	QN	QN	3.453E-04	3.453E-04	QN	QN	ш	ш
100	Hexanenitrile	QV	QN	QN	4.035E-04	4.035E-04	Q.	Q	ц.	L
anone 5.830E-04 10.00 5.730E-04 10.00 2.50 5.80E-04 10.00 2.00 5.80E-04 10.00 5.80E-04	Benzonitrile	5.134E-04	5.134E-04	ON	4.285E-04	4.285E-04	10.00	1.20	¥	۵
and 5,830E-04 5,830E-04 5,830E-04 1,201E-02 1,201E-02 1,201E-02 1,201E-02 1,201E-02 1,201E-02 1,201E-02 1,201E-02 1,201E-04 1,20	2-Nitrophenol	QN	QN	QN	5.782E-04	5.782E-04	QN	QN	ட	Ш
1,231E-02 1,231E-02 8,894E-03 2,330E-04 1,38 5,285 1,385	Acrolein	5.830E-04	5.830E-04	QN	2.330E-04	2.330E-04	10.00	2.50	¥	၁
annone ND ND 3078E-04 3078E-04 ND ND annone 5863E-04 5.683E-04 1.08E-04 1.09E-04 1.00 2.07 nD ND ND ND 2.895E-04 2.895E-04 1.00 DD nD ND ND ND ND ND ND ND n ND ND ND 2.912E-04 2.495E-04 ND ND n ND ND ND 2.912E-04 2.912E-04 ND ND n ND ND ND 2.912E-04 2.912E-04 ND ND n ND ND ND 2.912E-04 2.912E-04 ND ND n ND ND ND 2.912E-04 2.935E-04 1.90 ND n ND ND ND ND ND 1.93 1.93 n ND ND ND ND 2.912E-04 2.912E-04 <td>Acetone</td> <td>1.231E-02</td> <td>1.231E-02</td> <td>8.894E-03</td> <td>2.330E-04</td> <td>2.330E-04</td> <td>1.38</td> <td>52.85</td> <td>٥</td> <td>A</td>	Acetone	1.231E-02	1.231E-02	8.894E-03	2.330E-04	2.330E-04	1.38	52.85	٥	A
5.663E-04 5.663E-04 ND 2.829E-04 2.829E-04 10.00 2.07 ND ND ND ND 2.496E-04 2.496E-04 ND ND ND ND ND ND 2.496E-04 2.496E-04 ND ND ND ND ND ND 2.912E-04 2.912E-04 ND ND ND ND ND 2.912E-04 2.95E-04 1.12 1.36 ND ND ND 3.50E-04 2.95E-04 2.95E-04 1.0 ND ND ND ND ND 3.50E-04 2.95E-04 1.0 ND ND ND ND ND 3.95E-04 2	1-Hydroxy-2-propanone	9	QN	QN	3.078E-04	3.078E-04	QN	QN	ட	ய
ND	Furan	5.863E-04	5.863E-04	QN	2.829E-04	2.829E-04	10.00	2.07	4	ပ
ND ND ND 2.978E-04 3.078E-04 ND ND ND ND ND ND ND N	2-Propanol	Q	QN	QN	2.496E-04	2.496E-04	Q	Q.	ட	ட
ND	2-Methylpropanal	Q	ΩN	QN	3.078E-04	3.078E-04	Q	QN	L	L
ND ND ND 2.912E-04 2.912E-04 2.912E-04 ND ND ND ND 4,995E-04 4,995E-04 4,995E-04 4,995E-04 4,995E-04 1,12 1,12 1,12 1,12 ND ND ND 3,578E-04 3,578E-04 1,121 1,23 1,23 SageE-04 3,698E-04 3,698E-04 3,698E-04 1,295E-04 1,23 1,23 ND ND ND ND ND ND ND ND ND ND ND ND 3,661E-04 3,661E-04 ND ND ND ND ND ND 3,661E-04 3,61E-04 1,21 7,69 ND ND ND ND ND 3,61E-04 3,61E-04 ND ND ND ND ND ND 3,61E-04 3,91E-04 ND ND ND ND ND ND 3,91E-04 2,99E-04 2,99E-04 ND <td>1-Propanol</td> <td>QN</td> <td>QN</td> <td>QN</td> <td>2.496E-04</td> <td>2.496E-04</td> <td>2</td> <td>Q</td> <td>ட</td> <td>ட</td>	1-Propanol	QN	QN	QN	2.496E-04	2.496E-04	2	Q	ட	ட
ne ND ND ND 2.912E-04 2.912E-04 ND ND ND 4.955E-04 4.955E-04 4.955E-04 3.661E-04 3.661E-04 1.12 1.23 ND ND ND ND ND 3.578E-04 3.568E-04 1.21 1.23 1.36 A.698E-04 3.698E-04 3.698E-04 3.698E-04 3.698E-04 1.21 1.21 1.23 A.698E-04 3.698E-04 3.698E-04 3.698E-04 1.299E-04 ND ND ND ND ND ND ND 3.618E-04 3.618E-04 ND ND ND ND ND ND 3.618E-04 3.618E-04 ND	Methacrolein	QN	QN	QN	2.912E-04	2.912E-04	Q	QV	ш	ш
A 1995E-04 A 1995E-04 A 1457E-04 3 661E-04 1.12 1.36 1.36 1.15 1.36	Methyl-vinyl Ketone	Q.	QN	ON	2.912E-04	2.912E-04	ON	ND	L	ட
ND ND ND 3578E-04 3578E-04 1578E-04 NSYBE-04	MTBE	4.995E-04	4.995E-04	4.457E-04	3.661E-04	3.661E-04	1.12	1.36	۵	٥
3.698E-04 3.658E-04 3.055E-04 2.995E-04 2.995E-04 1.21 1.23 olane ND ND ND 3.66E-04 2.995E-04 2.995E-04 7.69 olane ND ND ND 3.66E-04 3.66E-04 ND ND ND ND ND 3.41E-04 ND ND ND 1.850E-04 1.850E-04 1.850E-04 ND 0.64 ND ND ND 2.912E-04 2.95E-04 ND ND 1.850E-04 1.850E-04 ND 2.912E-04 1.0.00 0.64 ND ND 3.718E-04 2.912E-04 1.0.00 0.64 ND ND 3.78E-04 2.912E-04 1.0.00 0.64 ND ND 3.78E-04 1.0.00 0.64 1.25 ND ND 3.78E-04 1.0.00 0.64 1.25 ND ND 3.578E-04 3.578E-04 0.00 0.83 ND	2,3-Butanedione	Q	QN	QN	3.578E-04	3.578E-04	Q	Q	щ	ட
olane 2.305E-03 2.305E-04 2.995E-04 2.995E-04 2.995E-04 2.47 7.69 olane ND ND ND 3.661E-04 3.661E-04 ND ND ND ND ND ND ND 2.995E-04 2.995E-04 ND ND ND 1.900E-03 1.900E-03 1.714E-03 2.912E-04 2.912E-04 1.000 0.64 ND ND ND ND 2.912E-04 2.905E-04 1.01 ND ND ND ND ND 3.678E-04 2.912E-04 1.00 0.64 ND ND ND ND ND 3.678E-04 3.078E-04 1.00 0.64 ND ND ND ND 3.691E-04 3.678E-04 1.00 ND ND ND ND ND ND 4.160E-04 4.160E-04 ND ND ND ND ND ND ND 4.160E-04 4.160E-04 ND<	Butanal	3.698E-04	3.698E-04	3.055E-04	2.995E-04	2.995E-04	1.21	1.23	۵	۵
Olane ND ND 3.661E-04 ND ND ND Olane ND 3.41E-04 3.61E-04 ND ND ND ND ND 2.995E-04 2.995E-04 ND ND ND 1.850E-04 1.850E-04 1.850E-04 1.850E-04 1.714E-03 2.912E-04 2.912E-04 10.00 0.64 ND ND 1.714E-03 2.496E-04 2.496E-04 1.11 7.61 ND ND ND 3.678E-04 3.078E-04 1.000 1.25 ND 4.483E-04 4.483E-04 ND 3.578E-04 3.578E-04 10.00 1.25 ND ND ND 3.678E-04 3.578E-04 10.00 1.25 ND ND ND 3.61E-04 3.61E-04 ND ND ND ND 3.678E-04 3.578E-04 10.00 ND ND ND 3.61E-04 1.000 ND ND A.160E-04	2-Butanone	2.305E-03	2.305E-03	9.320E-04	2.995E-04	2.995E-04	2.47	7.69	ပ	В
ND	2-Methyl-1,3-dioxolane	ON	QN	QN	3.661E-04	3.661E-04	QN	Q.	щ	щ
ND ND ND 2.995E-04 2.995E-04 ND ND ND ND ND ND ND N	2-Methylfuran	2	Q	Q	3.411E-04	3.411E-04	2	QN	щ	_
1,850E-04 1,850E-04 1,850E-04 1,850E-04 1,850E-04 1,850E-04 1,000 0,64 1,900E-03 1,900E-03 1,714E-03 2,496E-04 2,912E-04 1,11 7,61 ND ND ND 3,078E-04 3,078E-04 1,17 7,61 1,53E-03 1,153E-03 1,153E-03 1,392E-03 3,578E-04 0,83 3,22 ND ND ND A160E-04 4,160E-04 ND ND ND ate ND ND ND 4,160E-04 4,160E-04 ND ND ate ND ND A,07E-04 4,160E-04 10,00 1,35 nD ND ND 4,160E-04 4,160E-04 10,00 1,35 nD ND ND 4,160E-04 4,160E-04 10,00 1,78 nD ND A,077E-04 4,077E-04 A,077E-04 ND ND nD ND A,077E-04 A,077E-04 A,077E-04 A,07	Tetrahydrofuran	Q	Q	QN	2.995E-04	2.995E-04	QN	ON	r	
1,900E-03	trans-2-Butenal	1.850E-04	1.850E-04	Q	2.912E-04	2.912E-04	10.00	0.64	۷ (_
ND ND ND 3.078E-04 ND ND ND ND ND ND ND N	Acetic Acid	1.900E-03	1.900E-03	1.714E-03	2.496E-04	2.496E-04	ווין	19./		ומ
4,483E-04 4,483E-04 ND 3,578E-04 3,578E-04 10,00 1,25 1,153E-03 1,153E-03 1,153E-03 1,153E-04 3,578E-04 3,578E-04 0,83 3,22 Incylate ND ND ND ND A,160E-04 4,160E-04 0,00 ND ND Incylate ND ND ND 4,160E-04 4,160E-04 1,00 ND ND Incomplete ND 3,994E-04 3,994E-04 10,00 1,78 ND Incomplete ND ND 4,077E-04 4,077E-04 ND ND ND Incomplete ND 4,742E-04 4,742E-04 0,87 1,45	1-Butanol	QN	QN	QN	3.078E-04	3.078E-04	Q	Q	٠,	.
1.153E-03 1.153E-03 1.392E-03 3.578E-04 3.578E-04 0.83 3.22 Indicate ND ND ND 3.61E-04 3.61E-04 ND ND ND Indicate ND ND A.160E-04 4.160E-04 ND ND ND Indicate ND ND 3.94E-04 3.94E-04 10.00 1.35 Indicate ND ND 4.077E-04 4.077E-04 ND ND ND Indicate ND A.1742E-04 4.742E-04 4.742E-04 1.45 ND	2-Pentanone	4.483E-04	4.483E-04	Q	3.578E-04	3.578E-04	10.00	1.25	∀	٥
ND ND ND 3.661E-04 3.661E-04 ND ND ND ND ND 4.160E-04 4.160E-04 ND ND ND S.630E-04 5.630E-04 5.630E-04 ND 4.160E-04 10.00 1.78 ND ND 4.160E-04 3.994E-04 10.00 1.78 ND ND ND 4.077E-04 4.077E-04 ND ND ND 6.895E-04 6.895E-04 7.930E-04 7.930E-04 4.742E-04 4.742E-04 0.87 1.45	Pentanal	1.153E-03	1.153E-03	1.392E-03	3.578E-04	3.578E-04	0.83	3.22	4	S
ND ND ND ND 4.160E-04 4.160E-04 ND ND ND 5.630E-04 5.630E-04 5.630E-04 5.630E-04 ND 4.160E-04 4.160E-04 10.00 1.35 7.089E-04 7.089E-04 7.089E-04 ND 4.077E-04 4.077E-04 ND ND ND ND ND 4.742E-04 4.742E-04 0.87 1.45	1,4-Dioxane	QN	QN	ON	3.661E-04	3.661E-04	Q	Q	ш	L.
ND ND ND 3.494E-04 3.494E-04 ND ND ND 5.630E-04 5.630E-04 5.630E-04 ND 4.160E-04 4.160E-04 10.00 1.35 7.089E-04 7.089E-04 ND ND 4.077E-04 4.077E-04 ND ND ND ND ND 4.077E-04 4.077E-04 ND ND ND 6.895E-04 6.895E-04 7.930E-04 7.930E-04 4.742E-04 4.742E-04 0.87 1.45	Methyl Methacrylate	QN	QN	QN	4.160E-04	4.160E-04	2	Q	Ь	ш
5.630E-04 5.630E-04 5.630E-04 5.630E-04 ND 4.160E-04 4.160E-04 10.00 1.35 7.089E-04 7.089E-04 0.3994E-04 3.994E-04 10.00 1.78 ND ND ND 4.077E-04 ND ND 6.895E-04 6.895E-04 7.930E-04 4.742E-04 4.742E-04 0.87 1.45	Cyclopentanone	QN	QN	ON	3.494E-04	3.494E-04	Q	Q	L	ш
7.089E-04 7.089E-04 7.089E-04 ND 3.994E-04 3.994E-04 10.00 1.78 ND ND ND 4.077E-04 4.077E-04 ND ND ND 6.895E-04 6.895E-04 7.930E-04 4.742E-04 4.742E-04 0.87 1.45	Hexanal	5.630E-04	5.630E-04	QN	4.160E-04	4.160E-04	10.00	1.35	Y	۵
ND ND ND 4.077E-04 4.077E-04 ND	2-Furaldehyde	7.089E-04	7.089E-04	ON	3.994E-04	3.994E-04	10.00	1.78	A	۵
6.895E-04 6.895E-04 7.930E-04 4.742E-04 0.87	Cyclohexanone	QN	Q	Q	4.077E-04	4.077E-04	Q	Q.	L I	ш. (
	Heptanal	6.895E-04	6.895E-04	7.930E-04	4.742E-04	4.742E-04	0.87	1.45	_	O

TABLE A-5. AEC - VOC DATA EVALUATION FOR GREEN STAR CLUSTER TEST (31 MARCH 1998)

(a) Minoamod	Average Concentration - Bun 1, mo/m³	Average Concentration - Run 1. mg/m³	Average Background - Concentration, mg/m³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit • Concentration, mg/m²	Background Evaluation Criteria	Minimum Detection Limit Evaluation Criteria	Background Evaluation Notes	Minimum Detection Limit Evaluation Notes
2-Butoxvethanol	QN	ND	QN	4.909E-04	4.909E-04	ON	ND	Ł	Ь
Renzaldehyde	1.947E-03	1.947E-03	1.041E-03	4.410E-04	4.410E-04	1.87	4.41	٥	ပ
6-Methyl-5-henten-2-one	2	<u>Q</u>	2.114E-03	5.242E-04	5.242E-04	QN	QN	L	LL.
Octanal	1.011E-03	1.011E-03	1.006E-03	5.325E-04	5.325E-04	101	1.90	٥	۵
Benzofiran	3.797E-04	3.797E-04	QN	4.909E-04	4.909E-04	10.00	0.77	Α	ш
2-Ethyl-1-hexanol	2	Q	Q	4.992E-04	4.992E-04	ΩN	QN	u.	Ł
Acetophonone	4.260E-04	4.260E-04	Q	4.992E-04	4.992E-04	10.00	0.85	¥	T.
Nonanal	1.139E-03	1.139E-03	1.026E-03	5.907E-04	5.907E-04	1.11	1.93	٥	D
Decanal	8.744E-04	8.744E-04	8.777E-04	6.490E-04	6.490E-04	1.00	1.35	ட	۵
Carbonyl Sulfide	3.619E-04	3.619E-04	3.282E-04	2.496E-04	2.496E-04	1.10	1.45	۵	۵
Carbon Disulfide	9.335E-03	9.335E-03	1.684E-03	3.162E-04	3.162E-04	5.54	29.53	В	4
Thiophene	3.834E-04	3.834E-04	Q	3.494E-04	3.494E-04	10.00	1.10	Y	۵
Dimethyldisulfide	Q	QN	QN	3.910E-04	3.910E-04	ΠN	QN	μ	Ŀ

a Compounds in bold represent duplicate values.

A = Identified as a contaminant (greater than or equal to 10 times background or minimum MQL)
B = Likely contaminant (less than 10 and greater than or equal to 5 times background or minimum MQL)
C = Probable contaminant (less than 5 and greater than or equal to 2 times background or minimum MQL)
D = Measured, but accuracy or presence questionable (less than 2 and greater than or equal to 1 times background or minimum MQL)
F = Not considered a contaminant (less than 1 times background or minimum MQL)

TABLE A-6. AEC - VOC RUN NO. 1 DATA FOR GREEN STAR CLUSTER TEST (31 MARCH 1998)

Average Concentration - Hun 1, mg/m³ Run 1, ppbv Run 1, mg/m³ Run 1, mg/m² Ru							
1,48E-01	Average Bar Concentration - Cor	Background Corrected Concentration Concentration Bun 1. ma/m ³ Factor (b) %	Corrected Concentration -	Initial Plume	Sample Total Material - Run 1 Ih	Number of	Corrected Emission Factor - Run
1486E-01 1486E-02 1486E-02 1486E-02 1486E-03			╀				
1,480E-U 1,48	-						
Organic Compounds (VOCs) 30 4.567 5.700E-03 Paganic Compounds (VOCs) 26 20.433 2.380E-02 26 23.761 2.500E-03 26 23.761 2.500E-03 44 1.311 2.400E-03 42 4.750 8.300E-03 42 4.770 8.300E-03 43 0.371 1.400E-03 Hylpropane 56 0.300 7.000E-04 1-butiene 56 0.290 7.000E-04 1-butiene 56 0.290 7.000E-04 1-butiene 56 0.290 7.000E-04 1-butiene 56 0.029 7.000E-04 1-butiene 56 0.290 7.000E-04 1-butiene 56 0.029 7.000E-04 1-butiene 70 0.069 2.000E-04 1-butiene 84 ND ND 1-butiene 84 ND ND 1-butiene 84 ND ND <th>5</th> <th>1.126E-01 0.9595</th> <th>1.174E-01</th> <th>34,602</th> <th>2.535E-04</th> <th>-</th> <th>2.535E-04</th>	5	1.126E-01 0.9595	1.174E-01	34,602	2.535E-04	-	2.535E-04
30 4.567 5.700E-03 28 20.433 2.50E-02 26 23.761 2.50E-02 26 23.761 2.50E-03 44 1.311 2.400E-03 42 4.750 8.300E-03 100E-03 3.000E-03 3.000E-03 100E-04 5.6 0.300 7.000E-04 100E-05 5.6 0.712 1.500E-03 100E-05 3.000E-03 3.000E-03 100E-05 3.000E-03 3.000E-03 100E-06 3.000E-03 1.000E-04 1-Dutene 5.6 0.712 1.000E-04 1-Dutene 5.6 0.003 1.000E-04 1-Dutene 5.6 0.127 4.000E-04 1-Dutene 5.6 0.127 4.000E-04 1-Dutene 5.6 0.028 1.000E-04 1-Dutene 5.6 0.128 1.000E-04 1-Dutene 8.4 ND ND 1-Dutene 8.4 ND <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
28 20.433 2.380E-02 26 23.761 2.300E-02 44 1.31 2.500E-03 44 1.31 2.400E-03 42 4.750 8.300E-03 56 0.300 3.000E-03 56 0.300 7.000E-04 56 0.300 7.000E-04 56 0.300 7.000E-04 100 0.300 7.000E-04 100 0.300 7.000E-04 100 0.300 1.400E-03 100 0.290 7.000E-04 100 0.290 7.000E-04 100 0.000 0.000E-04 100 0.000 0.000E-04 100 0.000 0.000E-04 </td <td></td> <td>2:900E-03 0.9595</td> <td>3.022E-03</td> <td>34 602</td> <td>6 5295-06</td> <td>-</td> <td>6 529 5.06</td>		2:900E-03 0.9595	3.022E-03	34 602	6 5295-06	-	6 529 5.06
1 26 23.761 2.5/0E-02 44 1.311 2.4/0E-03 42 4.750 300E-03 42 4.750 300E-03 56 0.124 3.000E-04 100E-04 3.000E-04 3.000E-04 100E-05 56 0.580 1.300E-03 100E-05 56 0.5712 1.600E-04 100E-05 1.250 1.000E-04 100E-05 1.000E-04 1.000E-04 1-butene 56 0.034 1.000E-04 1-butene 56 0.029 2.000E-04 1-butene 56 0.029 2.000E-04 1-butene 56 0.024 1.000E-04 1-butene 56 0.028 1.000E-04 1-butene 56 0.028 1.000E-04 1-butene 56 0.028 1.000E-04 1-butene 56 0.028 1.000E-04 1-butene 84 ND ND 1-butene	2.380E-02	-	2.460E-02	34,602	5.313E-05		5.313E-05
1311 2.400E-03 42 4.750 8.300E-03 58 0.124 1.30E-03 1.30E-0	2.570E-02		2.595E-02	34,602	5.606E-05	-	5,606E-05
12	2.400E-03		1.146E-03	34,602	2.476E-06	-	2.476E-06
1000000000000000000000000000000000000	8.300E-03	8.300E-03 0.9595	8.650E-03	34,602	1.869E-05	-	1.869E-05
Se	3.000Ë-04 3.0	0.000E+00 0.9595	QV	34,602	QN	1	Q
100	7.000E-04		7.295E-04	34,602	1.576E-06	-	1.576E-06
S4	1.300E-03	1.300E-03 0.9595	1.355E-03	34,602	2.927E-06	-	2.927E-06
Secondary Secondary Cookers	1.600E-03		1.668E-03	34,602	3.602E-06	1	3.602E-06
pane 75 0.601 1400E-03 10 70 0.034 1.000E-04 10 70 0.167 5.000E-04 10 72 0.167 5.000E-04 10 72 0.069 2.000E-04 10 72 0.267 8.000E-04 10 72 0.267 8.000E-04 10 70 ND ND 10 70 ND ND 10 70 ND ND 10 86 0.028 1.000E-04 10 ND ND ND 10 86 0.028 1.000E-04 10 86 0.112 4.000E-04 10 86 0.196 7.000E-04 10 84 ND ND 10 84 ND ND 10 84 ND ND 10 84 ND 8.00E-04 100 100<	7.000E-04 5.	2.000E-04 0.9595	2.084E-04	34,602	4.503E-07	-	4.503E-07
To the control of the	1.400E-03	+	1.459E-03	34,602	3.152E-06	•	3.152E-06
Part	ON C		Q	34,602	Q	-	Q
TO 0.034 1.000E-04 TO 0.069 2.000E-04 TO 0.069 2.000E-04 TO 0.069 2.000E-04 TO 0.069 2.000E-04 TO ND ND ND TO	4.000E-04	+	4.169E-04	34,602	9.005E-07	-	9.005E-07
TO 0.069 2.000E-04 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.	1.000E-04	1.000E-04 0.9595	1.042E-04	34,602	2.251E-07	-	2.251E-07
TO 0.089 2.000E-04 1.000E-04 1.000E-	9.000E-04	1	QN	34,602	2	-	Q
TO 0.005 0.0	2.000E-04	2.000E-04 0.9595	2.084E-04	34,602	4.503E-07	-	4.503E-07
Second Color	8,000E-04	2.000E-04 0.9595	2.084E-04	34,602	4.503E-07	-	4.503E-07
To ND ND	TO NO.	+	2	20,500	2 5		2
ND ND ND ND ND ND ND ND	QV	ON O	S S	34,602	2 2	-	2 2
ND ND ND	Q		CZ	34 602	2 2	-	2 2
ane 86 0.028 1.000E-04 ND	QN	9696.0 QN	2	34,602	2	-	2 2
ND ND ND ND ND ND ND ND	1.000E-04	8	QV	34,602	2	-	QV
ane 84 ND ND ane 70 ND ND entene 86 0.112 4.000E-04 entene 86 0.124 4.000E-04 entene 86 0.224 8.000E-04 ente 84 ND ND ane 84 ND ND ente 84 ND ND ente 84 ND ND ente 84 ND 8.00E-04 ente 100 0.192 8.000E-04 ente 100 ND ND entene 100 ND ND entene 100 ND ND	QN	ND 0.9595	QN	34,602	Q	_	Q
ND ND ND ND ND ND ND ND	ON		QN	34,602	Q	_	QN
Annel B6 0.112 4.000E-04 entlene B6 0.196 7.000E-04 ene B6 0.224 8.000E-04 ene B4 0.286 1.000E-03 ene B4 0.196 7.000E-04 ene B4 0.196 7.000E-04 ene B4 0.086 3.000E-04 ene B4 0.087 2.000E-04 ene B4 0.087 2.000E-04 ene B4 0.087 2.000E-04 ene B4 0.087 0.00E-03 e	QV		QN	34,602	QN	-	QN
NO NO NO NO NO NO NO NO	4.000E-04	ģ	1.042E-04	34,602	2.251E-07	1	2.251E-07
B	2 200 E 24	+	Q C	34,602	2	-	QN
nne 84 ND COOD-CO 84 0.286 1.000E-03 86 0.196 7.000E-04 84 ND ND 84 ND ND 84 ND ND ane 84 ND ND 100 0.192 8.000E-04 100 0.192 8.000E-04 100 ND ND Iane 100 ND ND Iane 100 ND ND	8 000E-04	2 000E+00	NO STATE OF	34,602	ON LE		QN I
84 0.286 1.000E-03 86 0.196 7.000E-04 84 ND ND ND 84 ND ND ND 84 ND ND ND 84 ND ND ND 100 0.182 8.000E-04 138 84 0.057 2.000E-04 149 ND ND 150 ND ND ND 150 ND ND ND 150 ND	QN	\downarrow	S. 12/21	34 602	0.734E-07	-	6.754E-U/
Se	1.000E-03	-	1.042E-03	34.602	2.251E-06	-	2.251E-06
S4 ND ND ND ND ND ND ND ND ND	7.000E-04 7.0	00+	QN	34,602	QN	-	Q
ane 84 ND ND ane 84 ND ND ane 84 ND ND tane 100 0.192 8.000E-04 78 2.620 8.500E-04 84 0.057 2.000E-04 100 ND ND Iane 100 ND ND	Q		QN	34,602	QN	-	Q
ane 84 ND ND tane 0.086 3.000E-04 tane 100 0.192 8.000E-04 78 2.620 8.500E-03 84 0.057 2.000E-04 100 ND ND tane 100 ND 100 ND ND	QN		QN	34,602	QN	1	QV
Tane 84 0.080 3.00UE-04 (100 0.192 8.000E-04 100 0.192 8.500E-03 100 ND	NO L	1	Q	34,602	Q	-	Q
Table 100 0.192 8.000E-04 8.4 2.620 8.500E-03 8.4 0.057 2.000E-04 100 ND ND ND Iane 100 ND ND ND	3.000E-04	0.000E+00 0.9595	ON	34,602	2	1	ND
100 ND	8.000E-04	1	1.042E-04	34,602	2.251E-07	1	2.251E-07
lane 100 ND ND ND	8.500E-03	1	7.817E-03	34,602	1.689E-05	-	1.689E-05
tane 100 ND ND	2.000E-04	ş	2	34,602	2	-	2
	2	U.9595	ON S	34,602	Q		2
		NO 0.9595	2 2	34,602	2	-	2
entane 114 0.612 2 9 00 E-03	2 900E-03	18	2 2	24,502	2 9		2
	200000	1	2	24,002	2		2

TABLE A-6. AEC - VOC RUN NO. 1 DATA FOR GREEN STAR CLUSTER TEST (31 MARCH 1998)

pro pestolo projection	Moiecular	Average Concentration -	Average Concentration -	Background - Concentration,	Background Corrected Concentration	Dilution Correction	Corrected Concentration	Initial Plume	Sample Total Material - Run	Number of	Corrected Emission Factor - Run
Compound (a)	Weight	∴ Kun 1, ppbv	3 000E-04	mg/m 2 000 F-04	нип I, mg/m 1 000E-04	0.9595	1.042E-04	34.602	2.251E-07	1	2.251E-07
2 4 4-Trimethyl-1-pentene	112	ON	QN	Q	Q	0.9595	QN	34,602	QN	1	QN
Methylcyclohexane	86	0.049	2.000E-04	2.000E-04	0.000E+00	0.9595	QN	34,602	QN	-	Q
2.4.4-Trimethyl-2-pentene	112	Q	QN	Q	QN	0.9595	QN	34,602	Q	-	Q
2.5-Dimethylhexane	114	0.042	2.000E-04	2.000E-04	0.000E+00	0.9595	QN	34,602	QN	-	Q
2.4-Dimethylhexane	114	0.063	3.000E-04	4.000E-04	-1.000E-04	0.9595	QN	34,602	QN	-	Q
2.3.4-Trimethylpentane	114	0.148	7.000E-04	7.000E-04	0.000E+00	0.9595	QN	34,602	QN	-	2
Toluene	92	1.124	4.300E-03	2.200E-03	2.100E-03	0.9595	2.189E-03	34,602	4.728E-06	1	4.728E-06
2.3-Dimethylhexane	114	0.042	2.000E-04	3.000E-04	-1.000E-04	0.9595	QN	34,602	QN	-	Q
2-Methylheptane	11	QV	QN	1.000E-04	ND	0.9595	QN	34,602	ND	-	Q
3-Ethylhexane	114	Q	QN	QV	ON	0.9595	QN	34,602	Q	-	9
2,2-Dimethylheptane	128	<u>Q</u> V .	QN	QN	ND	0.9595	QN	34,602	Q	-	Q
2,2,4-Trimethylhexane	128	0.038	2.000E-04	1.000E-04	1.000E-04	0.9595	1.042E-04	34,602	2.251E-07	-	2.251E-07
n-Octane	114	0.042	2.000E-04	1.000E-04	1.000E-04	0.9595	1.042É-04	34,602	2.251E-07	-	2.251E-07
Ethytcydohexane	112	QN	QN	ND	QN	0.9595	Q	34,602	Q	-	Q
Ethylbenzene	160	0.075	5.000E-04	2.000E-04	3.000E-04	0.9595	3.127E-04	34,602	6.754E-07	-	6.754E-07
m-Xylene & p-Xylene	106	0.386	1.700E-03	1.200E-03	5.000E-04	0.9595	5.211E-04	34,602	1.126E-06	-	1.1265-06
Styrene	104	0.162	7.000E-04	Q	7.000E-04	0.9595	7.295E-04	34,602	1.5/6E-06		1.5/6E-06
o-Xylene	106	0.181	8.000E-04	4.000E-04	4.000E-04	0.9595	4.169E-04	34,602	9.005E-07	- -	9.0055-07
n-Nonane	128	0.075	4.000E-04	Q.	4.000E-04	0.9595	4.169E-04	34,602	70-E00:8	- -	70-10078 014
-Propylbenzene	120	QN	QN	QN	ON S	0.9595	ON LOS	34,602	ND STATE OF	-	ND 0
n-Propylbenzene	120	0.040	2.000E-04	1.000E-04	1.000E-04	0.9595	1.042E-04	34,602	4 PO1E-0/	- -	1 801E-07
p-Ethyltoluene	ON S	0.220	1.1005-03	3.000=04	4 000E-04	0.9393	4 4600.04	34,002	0.0015-00	- -	9 005E-07
m-Emyrotuene 1 2 E Trimothulbozzoo	200	0.100	3.000E-04	2 DOOE-04	2.000E-04	0.9393	2.084E-04	34 602	4.503E-07		4.503E-07
L, S, S- LIMITEURY DELICATIO	200	000.0	4 000 00	1000	2.000E-04	0.0000	3 127E-04	34 602	6 754F-07		6.754E-07
o-Enlymondene	22	0000	**************************************	1000E-04	4 000E 04	2020	4 160E 04	20 800	9 005E-07		9 0055-07
1,z,4-1 rimemyloenzene & sec-buryluerizere	772	0.500	1.000E-03	10005-04	4.000E-04	0.9333	NO.	34 602	CN	-	GN
n-Decane	247	0.01	I.OOUE-OF	L'OOG-OH	O. COOL TOO	0.9333	G S	34 602	S		S
alpha-rinene	136	25	25	2 2	2 2	0.9595	CN	34 602	Q		Q
Jetarrinelle Jetta 3-Carana	136	S	2 5	CZ	Q.	0.9595	Q	34.602	2	-	Q
d-l imprene	136	CN	QN	QN	QV	0.9595	QN	34,602	Q	-	Q
MTBE	88	0.109	4.000E-04	4.000E-04	0.000E+00	0.9595	QN	34,602	QN	-	QN
ETBE	102	QN	QN	QN	S	0.9595	QN	34,602	QN	1	QN
Dichlorodifluoromethane	120	0.280	1.398E-03	1.179E-03	2.188E-04	0.9595	2.280E-04	34,602	4.925E-07	-	4.925E-07
Methylchloride	09	QN	QN	ON	ON	0.9595	Q	34,602	Q	-	Q
Dichlorotetrafluoroethane	171	QN	QN	ON	QN	0.9595	QN	34,602	Q	-	QN
Chloroethene	63	QV	S	QN	9	0.9595	Q	34,602	9	-	Q
I,3-Butadiene	54	0.724	1.627E-03	Ð	1.627E-03	0.9595	1.696E-03	34,602	3.664E-06	_	3.664E-06
Methylbromide	95	Q	Q.	Q.	2	0.9595		34,602	2 2	- -	2 2
Ethylchloride	64.5	9	QN	QN	QN	0.9595	ON IS	34,602		- ,	ON COLOR
Trichloromonofluoromethane	137	0.438	2.495E-03	2.434E-03	6.025E-05	0.9595	6.279E-05	34,602	1.350E-U/	- -	1.350E-07
Vinylidenechlonde	6	ON THE	ND ND	ON LOSS	ND AND A	0.9393	NO NO	34,602	0 208E-05	- -	9 29RE-05
Metnylenechlonde	92	11./44 NO	4.133E-02	Z.Z83E-04	4.130E-02	0.5353	NO NO	34 602	ON ON	-	ON
Anytomore 2 2 triffmoroethane	188	0 107	8 335F-04	R 665F-04	.3 305E-05	0.9595	QN	34.602	2	-	2
1 1-Dichloroethane	66	QN	QN	GN	QN	0.9595	9	34,602	QN	-	2
1.2-Dichloroethene	97	Q	Q	2	Q	0.9595	QN	34,602	Q	-	Q
1,5 510 110 50 510 51			44		41.		-	04.000			

TABLE A-6. AEC - VOC RUN NO. 1 DATA FOR GREEN STAR CLUSTER TEST (31 MARCH 1998)

										:	
	Molecular	Average Concentration -	Average Concentration -	Background - Concentration,	Background Corrected Concentration -	Dilution Correction	Corrected Concentration -	Initial Plume	Sample Total Material - Run	Number of	Corrected Emission Factor - Run
Compound (a)	Weight	Run 1, ppbv	Run 1, mg/m³	mg/m	Run 1, mg/m³	Factor (b), %	Run 1, mg/m³	Volume, ft³	1, lb	Items	1, lb/item
1,2-Dichloroethane	66	QN	QN	ON	ON	0.9595	QN	34,602	QN	1	QN
Methylchloroform	133	0.068	3.759E-04	3.490E-04	2.690E-05	0.9595	2.803E-05	34,602	6.056E-08	1	6.056E-08
Benzene	78	2.664	8.646E-03	1.017E-03	7.628E-03	0.9595	7.950E-03	34,602	1.717E-05	1	1.717E-05
Carbontetrachloride	154	0.123	7.904E-04	6.758E-04	1.146E-04	0.9595	1.194E-04	34,602	2.580E-07	-	2.580E-07
1,2-Dichloropropane	113	2	Q	ND	QN	0.9595	QN	34,602	QN	1	QN
Trichloroethylene	133	QN	QN	QN	QN	0.9595	QN	34,602	2	-	Q
cis 1,3-Dichloro-1-propene	111	QN	QV	QN	QN	0.9595	S	34,602	Q	1	S
trans 1,3-Dichloro-1-propene	111	QN	Q	QV	QN	0.9595	QN	34,602	QN	-	QN
1,1,2-Trichloroethane	133	QN	QN	QN	QN	0.9595	QN	34,602	Q	-	QN
Toluene	92	1.143	4.374E-03	2.238E-03	2.136E-03	0.9595	2.226E-03	34,602	4.809E-06	-	4.809E-06
1,2-Dibromoethane	188	QN	QN	QN	QN	0.9595	QN	34,602	QV	-	QN
Perchloroethylene	166	QN	QN	Q	Q	0.9595	QN	34,602	Q	-	Q
Chlorobenzene	113	QN	QN	QN	QN	0.9595	QN	34,602	QN	-	Q
Ethylbenzene	160	0.115	7.676E-04	QN	7.676E-04	0.9595	8.000E-04	34,602	1.728E-06	-	1.728E-06
m&p-Xylene	106	0.408	1.798É-03	1,121E-03	6.774E-04	0.9595	7.060E-04	34,602	1.525E-06	-	1.525E-06
Styrene	104	690'0	2.975E-04	QN	2.975E-04	0.9595	3.100E-04	34,602	6.697E-07	-	6.697E-07
1,1,2,2-Tetrachloroethane	168	QN	ŅŅ	ON	ND	0.9595	QN	34,602	Q	-	Q
o-Xylene	106	0.185	8.137E-04	4.068E-04	4.068E-04	0.9595	4.240E-04	34,602	9.160E-07	1	9.160E-07
p-Ethyltoluene	120	0.078	3.914E-04	ND	3.914E-04	0.9595	4.079E-04	34,602	8.811E-07	-	8.811E-07
1,3,5-Trimethylbenzene	120	0.051	2.552E-04	QN	2.552E-04	0.9595	2.660E-04	34,602	5.746E-07	-	5.746E-07
1,2,4-Trimethylbenzene	120	0.172	8.568E-04	5.425E-04	3.143E-04	0.9595	3.275E-04	34,602	7.075E-07	1	7.075E-07
Benzylchlonde	127	QN	Q	QN	Q	0.9595	ON	34,602	QN	1	QN
m-Oichlorobenzene	147	Q	QN	QN	Q	0.9595	QN	34,602	ON	1	QN
p-Dichlorobenzene	147	Q	2	QN	QN	0.9595	Q	34,602	QN	-	QN
o-Ucniorobenzene	147	QN	Q.	9	Q	0.9595	QN	34,602	Q	-	QN
1,2,4-1 ncnlorobenzene	181	Q C	2	QV.	Q	0.9595	Q	34,602	Q	-	QN
nexachiorodutadiene	797	S	2	Q	Q.	0.9595	Q	34,602	Q	1	QN
Frierylacetylene	102	2 2	2 5	ON S	QN C	0.9595	Q :	34,602	Q.	_	2
2.2 Dibudes 1 mother 11 indeed	- 10	S C	2 2	2	2	0.9595	ON.	34,602	QN :	-	2
2.3-Uniyaro- I-memyi- In-maene	132	2 2	2	ON	Q .	0.9595	2	34,602	9	-	2
Narbhalana	132	CHC	ND Toole +	NO 3050 A	ND Sear or	0.9595	ON LOSS	34,602	QN C	-	QN C
2-Methylnaohthalene	142	GN	ND ON	TO LEGIS	SOCHE-OF	0.9393	1.020E-03	34,002	2.2215-00	- -	2.221E-06
1-Methylnaphthalene	142	Q	Q	QN	2	0.9595	2 2	34 602	2 5	- -	2 2
Cyanogen	52	QN	QN	QN	S.	0.9595	2	34,602	Q	-	S
Methylnitrite	61	0.159	4.034E-04	QN	4.034E-04	0.9595	4.204E-04	34,602	9.082E-07	-	9.082E-07
Acetonitrile	41	0.557	9.500E-04	QN	9.500E-04	0.9595	9.901E-04	34,602	2.139E-06	-	2.139E-06
Acrylonitrile	53	0.862	1.900E-03	ON	1.900E-03	0.9595	1.981E-03	34,602	4.278E-06	1	4.278E-06
Nitromethane	61	0.374	9.490E-04	ON	9.490E-04	0.9595	9.891E-04	34,602	2.137E-06	1	2.137E-06
Propanentrile	55	Q	Q	QN	Q	0.9595	ON	34,602	ΩN	-	QN
Z-Metnyipropanentrile	69	ON.	Q	Q	QV	0.9595	Q	34,602	Q	-	Q
rentanenitnie	83	Q .	Q	Q	QN	0.9595	Q	34,602	Q	1	Q
Hexanenitnie	97	QN	Q	Q	Q	0.9595	Q	34,602	QN	1	ND
Benzonifule	103	0.120	5.134E-04	QN	5.134E-04	0.9595	5.351E-04	34,602	1.156E-06	1	1.156E-06
2-Nitrophenol	139	Q	Q	ON.	ON	0.9595	QN	34,602	QN	1	QV
Acrolein	56	0.250	5.830E-04	Q	5.830E-04	0.9595	6.076E-04	34,602	1.313E-06	1	1.313E-06
Acetone	2,56	5.285	1.231E-02	8.894E-03	3.418E-03	0.9595	3.563E-03	34,602	7.696E-06	1	7.696E-06
1-nydroxy-z-propanone	4,4	NO SO	ON COLOR	2	ON Local	0.9595	QN	34,602	Q	-	2
2-Proparol	8 8	0.20/ ND	5.863E-04	2 2	5.863E-04	0.9595	6.110E-04	34,602	1.320E-06	-	1.320E-06
T. Johnson	3	j	J.	NO.	Z	0.9595	ON	34,602	ON.		N D

TABLE A-6. AEC - VOC RUN NO. 1 DATA FOR GREEN STAR CLUSTER TEST (31 MARCH 1998)

March Control	Molecular	Average Concentration -	Average Concentration - Run 1. mo/m²	Background - Concentration,	Background Corrected Concentration -	Dilution Correction Factor (b): %	Corrected Concentration - Run 1. morm³	initial Plume Volume, ft³	Sample Total Material - Run 1, lb	Number of Items	Corrected Emission Factor - Run 1, lb/ltem
2-Mathydoropapal	74	CN	GN	QN	QN	0.9595	QN ON	34,602	QN	-	QN
1-Pronapol	9	2	Q	Q	Q	0.9595	Q	34,602	QV	-	QN
Methacrolein	202	2	9	Q	QN	0.9595	Q	34,602	QN	1	QN
Methyl-vinyl Ketone	2	9	QV	QN	QN	0.9595	Q	34,602	ON	1	QN
MTBE	88	0.136	4.995E-04	4.457E-04	5.376E-05	0.9595	5.603E-05	34,602	1.210E-07	1	1.210E-07
2.3-Butanedione	98	2	Q	8	QN	0.9595	ND	34,602	Q	+	Q
Butanal	72	0.123	3.698E-04	3.055E-04	6.426E-05	0.9595	6.697E-05	34,602	1.447E-07	-	1.447E-07
2-Butanone	72	0.769	2.305E-03	9.320E-04	1.373E-03	0.9595	1.431E-03	34,602	3.090E-06	-	3.090E-06
2-Methyl-1,3-dioxolane	88	2	Q	Q	QN	0.9595	QN	34,602	Q	-	Q
2-Methyfuran	82	QV	Q	QN	GN	0.9595	QN	34,602	Q	-	2
Tetrahydrofuran	72	2	QN	ON	QN	0.9595	Q	34,602	Q	-	Q
trans-2-Butenal	0,	0.064	1.850E-04	QN	1.850E-04	0.9595	1.928E-04	34,602	4.166E-07	-	4.166E-07
Acetic Acid	09	0.761	1.900E-03	1.714E-03	1.853E-04	0.9595	1.931E-04	34,602	4.171E-07	+	4.171E-07
1-Butanol	74	QN	QN	QN	QN	0.9595	ON.	34,602	Q	1	9
2-Pentanone	98	0.125	4.483E-04	ON	4.483E-04	0.9595	4.673E-04	34,602	1.009E-06	-	1.009E-06
Pentanal	98	0.322	1.153E-03	1.392E-03	-2.384E-04	0.9595	Q	34,602	Q	1	Q
1,4-Dioxane	88	QN	QN	ND	ON	0.9595	Q	34,602	Q	-	2
Methyl Methacrylate	100	QN	QN	ON	QN	0.9595	Q	34,602	Q	1	2
Cyclopentanone	84	QN	QN	QN	QN	0.9595	Q	34,602	Q	-	Q
Hexanal	100	0.135	5.630E-04	ON	5.630E-04	0.9595	5.868E-04	34,602	1.268E-06	-	1.268E-06
2-Furaldehyde	96	0.178	7.089E-04	ND	7.089E-04	0.9595	7.388E-04	34,602	1.596E-06	-	1.596E-06
Cyclohexanone	86	QN	QN	QN	QN	0.9595	QN	34,602	Q	-	Q
Heptanal	114	0.145	6.895E-04	7.930E-04	-1.035E-04	0.9595	Q	34,602	Q	-	Q
2-Butoxyethanol	118	QV	Q	ND	Q	0.9595	QV	34,602	2	-	Q
Benzaldehyde	106	0.441	1.947E-03	1.041E-03	9.060E-04	0.9595	9.442E-04	34,602	2.040E-06	-	2.040E-06
6-Methyl-5-hepten-2-one	126	2	2	2.114E-03	Q	0.9595	2	34,602	9		Q
Octanal	128	0.190	1.011E-03	1.006E-03	5.069E-06	0.9595	5.283E-06	34,602	1.141E-08	-	1.141E-08
Benzofuran	118	0.077	3.797E-04	Q	3.797E-04	0.9595	3.957E-04	34,602	8.549E-07	-	8.549E-07
2-Ethyl-1-hexanol	120	QV	ON	QN	Q	0.9595	Q	34,602	2	-	QV
Acetophonone	120	0.085	4.260E-04	ON	4.260E-04	0.9595	4.440E-04	34,602	9.592E-07	-	9.592E-07
Nonanal	142	0.193	1.139E-03	1.026E-03	1.135E-04	0.9595	1.183E-04	34,602	2.555E-07	1	2.555E-07
Decanal	156	0.135	8.744E-04	8.777E-04	-3.313E-06	0.9595	Q	34,602	Ω	-	QN
Carbonyl Sulfide	09	0.145	3.619E-04	3.282E-04	3.376E-05	0.9595	3.519E-05	34,602	7.601E-08	1	7.601E-08
Carbon Disulfide	92	2.953	9.335E-03	1.684E-03	7.651E-03	0.9595	7.974E-03	34,602	1.723E-05	-	1.723E-05
Thiophene	84	0.110	3.834E-04	QN	3.834E-04	0.9595	3.996E-04	34,602	8.632E-07	-	8.632E-07
Dimethyldisulfide	94	QV	QV	QV	QN	0.9595	Q	34,602	QN	-	QN

a Compounds in bold represent duplicate values. b Estimated from tracer data as presented in Volume IV.

TABLE A-7. AEC - SVOC DATA EVALUATION FOR GREEN STAR CLUSTER TEST (31 MARCH 1998)

	Average Concentration -	Average Concentration -	Average Background - Concentration,	Average Maximum Detection Limit - Concentration,	Average Minimum Detection Limit - Concentration,	Background Evaluation	Minimum Detection Limit Evaluation	Background Evaluation	Minimum Detection Limit Evaluation
punodulo	Run I, mg/m	Run I, mg/m	шдш	mgm	m/gm	Criteria	Criteria	Notes	Notes
Particulate/Vapor-phase SVOCs									
N-Nitrosodimethylamine	QN	QN	Q	1.499E-04	1.499E-04	QN	Q	ш	ш
Pyridine	ND	QN	QN	4.393E-04	4.393E-04	QN	QV	ш	ш
2-Picoline	QN	QN	QV	4.566E-04	4.566E-04	9	Q	L.	L.
Methyl methanesulfonate	ND	QN	QN	1.727E-04	1.727E-04	QN	QV	ш	ш
N-Nitrosomethylethylamine	ND	QN	QN	3.429E-04	3.429E-04	QN	QN	ш	ш
N-Nitrosodiethylamine	ND	QN	QN	3.661E-04	3.661E-04	Q	QN	ட	L
Ethyl methanesulfonate	ND	QN	QN	1.684E-04	1.684E-04	QN	QN	F	ш
Phenol	ND	QN	ND	1.077E-04	1.077E-04	QN	QN	ட	ட
Aniline	ON	QN	ND	1.719E-04	1.719E-04	DN	QN	ч	ш
bis(2-Chloroethyl)ether	ND	QN	ND	1.344E-04	1.344E-04	QN	QN	4	ш
Pentachloroethane	NĎ	QN	ND	3.105E-04	3.105E-04	QN	Q	ш	ட
2-Chlorophenol	ND	QN	QN	6.848E-05	6.848E-05	QN	Q	ட	L.
1,3-Dichlorobenzene	ND	QN	ND	1.322E-04	1.322E-04	QN	QN	u.	ட
1,4-Dichlorobenzene	ND	QN	QN	2.653E-04	2.653E-04	Q	QN	ш.	ш
Benzyl alcohol	ON	QN	ON	3.002E-04	3.002E-04	QN	QN	ட	L
2-Methylphenol	ND	QN	QN	2.416E-04	2.416E-04	QN	QN	ı.	L
1,2-Dichlorobenzene	UN	QΝ	QN	1.921E-04	1.921E-04	QN	QN	ш	L
bis(2-Chloroisopropyl)ether	ND	QN	ND	1.619E-04	1.619E-04	QN	QN	ட	Ш
o-Toluidine	ND	QN	QN	1.706E-04	1.706E-04	QN	QN	u.	u.
4-Methylphenol/3-Methylphenol	ND	QN	ND	2.042E-04	2.042E-04	QN	QN	ட	L.
N-Nitroso-di-n-propylamine	ND	QN	ND	1.210E-04	1.210E-04	QN	2	u.	u_
Acetophenone	5.830E-04	5.830E-04	2.708E-04	1.271E-04	1.271E-04	2.15	4.59	ပ	O
N-Nitrosomorpholine	ND	QN	QN	3.872E-04	3.872E-04	Q.	Q	ш	L.
N-Nitrosopyrrolidine	ON	QN	QN	5.126E-04	5.126E-04	QN	QV	ш	L
Hexachloroethane	QN	QN	Q	2.128E-04	2.128E-04	ON	ON	ч	F
Nitrobenzene	QN	Q	QN	3.838E-04	3.838E-04	QN	ON	F	Ľ.
N-Nitrosopiperidine	QN	QN	ND	3.140E-04	3.140E-04	QN	Q	ш	Н
Isophorone	Q	Q	Q	9.217E-05	9.217E-05	2	Q	ட	ட
2,4-Dimethylphenol	QN	QN	QN	1.452E-04	1.452E-04	Q.	Q	ட	u.
Z-Nitrophenol	Q	QN	Q	2.309E-04	2.309E-04	ND	2	ш	L.
bis(2-Chloroethoxy)methane	Q S	2	Q.	1.684E-04	1.684E-04	2	2	ıL	ட
Denzoic acid	ON.	ΩN	ND	1.576E-02	1.576E-02	NO	2	4	щ
2,4-Dichlorophenol	QN	Q	Q	2.111E-04	2.111E-04	ND	ON	F	IL.
1,2,4-Trichlorobenzene	QN	QN		1.520E-04	1.520E-04	ND	ND	F	L.
Naphthalene	6.994E-04	6.994E-04	2.995E-04	1.925E-04	1.925E-04	2.34	3.63	S	O
p-Chloroaniline	ND	QN	ND	1.387E-04	1.387E-04	ND	QV	L.	u.
2,6-Dichlorophenol	QN	Q	ND	1.482E-04	1.482E-04	ND	QN	L.	u.
Hexachloropropene	QV	Q	QN	2.434E-04	2.434E-04	ND	DN	F	L.
Hexachlorobutadiene	Q	2	Q	2.197E-04	2.197E-04	ND	QN	ъ.	ц
Dimethylphenethylamine	Q	Q	ON	8.787E-03	8.787E-03	ND	ON	F	ட
N-Nitroso-di-n-butylamine	Q	2	Q	1.611E-04	1.611E-04	Q	Q	u.	ıı

TABLE A-7. AEC - SVOC DATA EVALUATION FOR GREEN STAR CLUSTER TEST (31 MARCH 1998)

Dunoduo	Average Concentration - Burt 1, mo/m²	Average Concentration - Run 1. ma/m³	Average Background - Concentration,	Average Maximum Detection Limit - Concentration, ma/m³	Average Minimum Detection Limit - Concentration, ma/m³	Background Evaluation Criteria	Minimum Detection Limit Evaluation Criteria	Background Evaluation Notes	Minimum Detection Limit Evaluation Notes
I4-Chloro-3-methylphenol	QN	QN	QN	2.442E-04	2.442E-04	ON	QN	L	L.
Safrole	QN	QN	Q.	3.062E-04	3.062E-04	Q	Q	L	L
2-Methylnaphthalene	2.725E-04	2.725E-04	QN	1.546E-04	1.546E-04	10.00	1.76	A	٥
1,2,4,5-Tetrachlorobenzene	Q	QN	QN	2.352E-04	2.352E-04	QN	QN	ட	ш
Hexachlorocyclopentadiene	<u>Q</u>	QN	S	4.781E-03	4.781E-03	QN	QN	F	ц.
2,4,6-Trichlorophenol	QV	QN	QN	2.718E-04	2.718E-04	ON	QN	F	ч
2,4,5-Trichlorophenol	ON	DN	QN	2.309E-04	2.309E-04	ND	QN	Д	Ŧ
Isosafrole	ON	QN	QN	4.652E-04	4.652E-04	ND	QN	L.	ц.
2-Chloronaphthalene	QN	QN	QN	2.429E-04	2.429E-04	ND	QN	F	н
2-Nitroaniline	ON	ON	QN	1.542E-04	1.542E-04	QN	ON	11	L.
1,4-Naphthoquinone	QN	QN	QN	4.307E-04	4.307E-04	ND	QN	ı.	Ŀ
Dimethylphthalate	QN	QN	QN	1.253E-04	1.253E-04	ON	QN	F	F
[1,3-Dinitrobenzene	QN	GN	QN	3.605E-04	3.605E-04	QN	QN	4	Ŧ
2,6-Dinitrotoluene	DN	QN	QN	3.032E-04	3.032E-04	ND	QN	F	F
Acenaphthylene	QN	QN	Q	1.408E-04	1.408E-04	9	9	ш	ш
3-Nitroaniline	QN	QN	S	3.795E-04	3.795E-04	9	Ð	ட	ш.
4-Nitrophenol	QN	QN	QN	1.322E-02	1.322E-02	Q	QN	ш	u.
2,4-Dinitrophenol	QN	QN	QN	1.357E-02	1.357E-02	QN	QN	F	щ
Acenaphthene	QN	ΔN	QN	1.551E-04	1.551E-04	QN	Q	4.	ш
2,4-Dinitrotoluene	QN	QN	QN	1.917E-04	1.917E-04	Q	S	ட	ட
Dibenzofuran	DN	QN	QN	1.051E-04	1.051E-04	QN	QN	Ŧ	ш
Pentachlorobenzene	QN	QN	QN	2.903E-04	2.903E-04	DN	QN	F	Ь
1-Naphthylamine	QN	ON	ON	7.581E-04	7.581E-04	ND	QN	F	щ
2-Naphthylamine	QV	QN	ON	6.719E-04	6.719E-04	QN	QN	F	ч.
2,3,4,6-Tetrachlorophenol	QN	QN	ON	3.075E-04	3.075E-04	ND	QN	Ŧ	Ц
Diethylphthalate	8.956E-04	8.956E-04	3.475E-04	1.120E-04	1.120E-04	2.58	8.00	C	В
4-Chlorophenylphenyl ether	QV	Q	Q	1.219E-04	1.219E-04	QN	QN	Œ.	Œ.
Fluorene	ND	Q	Q	1.464E-04	1.464E-04	Q	S	ш	Щ
5-Nitro-o-toluidine	Q	Q	Q	1.564E-04	1.564E-04	Q	Q	ш	ш.
4-Nitroaniline	QQ.	Q	2	3.338E-04	3.338E-04	Q	Q	Ŧ	u.
4,6-Dinitro-2-methylphenol	Q	Q	Q	1.172E-02	1.172E-02	Q	QN	F	Ш
Diphenylamine/N-NitrosoDPA	QN	Q	Q	1.585E-04	1.585E-04	S	S	u.	L
sym-Trinitrobenzene	Q	Q	QN	5.384E-04	5.384E-04	ND	Q	F	щ
Diallate	Q	Q	ON	2.046E-04	2.046E-04	ND.	Q	ш	ட
Phenacetin	ND	QN	ON	9.648E-05	9.648E-05	QN	QN	F	Ш
4-Bromophenylphenyl ether	ND	QN	QN	2.968E-04	2.968E-04	QN	QN	u.	L
Hexachlorobenzene	DN	QN	NO	1.598E-04	1.598E-04	QN	QN	F	u.
4-Aminobiphenyl	ND	QN	QN	8.916E-04	8.916E-04	QN	QN	T.	ıL
Pronamide	ND	QN	ND	1.107E-04	1.107E-04	QN	QN	Ц	Ŀ
Pentachlorophenol	Q	QV	ND	1.240E-02	1.240E-02	ON	ΩN	L.	LL.
Pentachloronitrobenzene	QV	QN	Q	5.772E-04	5.772E-04	2	Q	ட	L
Phenanthrene	Q	Q	ND	2.627E-04	2.627E-04	Q	QN	L	ш
Anthracene	QN	QN	2	1.576E-04	1.576E-04	QN	Q.	1	4

TABLE A-7. AEC - SVOC DATA EVALUATION FOR GREEN STAR CLUSTER TEST (31 MARCH 1998)

			Average	Average Maximum	Average Minimum		Minimum		Minimum
·	Average	Average Concentration -	Background -	Detection Limit -	Detection Limit -	Background	Detection Limit	Background	Detection Limit Fyaluation
Compound	Run 1, mg/m³	Run 1, mg/m³	mg/m³	mg/m³	mg/m³	Criteria	Criteria	Notes	Notes
Carbazole	QN	QN	QN	1.055E-04	1.055E-04	ON	QN	F	Ь
Di-n-butylphthalate	1.302E-03	1.302E-03	1.357E-03	7.322E-05	7.322E-05	96'0	17.78	ıL	A
4-Nitroquinoline-1-oxide	Q	QN	QN	9.691E-03	9.691E-03	ND	QN	ш	ட
Methapyrilene	Q	QN	QV	8.916E-03	8.916E-03	ND	QN	4	L
Fluoranthene	Q	QN	QN	1.555E-04	1.555E-04	QN	QN	14.	L.
Benzidine	Q	QN	Q	5.772E-03	5.772E-03	ND	QN	1	Ъ
Pyrene	Q	Q	Q	2.136E-04	2.136E-04	ON	QN	1	L
p-Dimethylaminoazobenzene	Q.	QV	QN	1.585E-04	1.585E-04	QN	QN	<u> </u>	ı.
Chlorobenzilate	Q	Q	9	2.205E-04	2.205E-04	ND	QN	L	u.
Kepone	Q	Q	Q	8.097E-03	8.097E-03	QN	QN	±	F
Butylbenzylphthalate	Q	QN	QV	8.830E-05	8.830E-05	QN	QN	4	ш
3,3'-Dimethylbenzidine	Q	S	Q	8.528E-04	8.528E-04	QN	QN	ш	Щ
2-Acetylaminofluorene	Q	QN	QN	1.344E-04	1.344E-04	ND	QN	u.	ட
bis(2-Ethylhexyl)phthalate	6.725E-03	6.725E-03	QN	5.255E-04	5.255E-04	10.00	12.80	A	A
3,3'-Dichlorobenzidine	9	Q	QV	1.443E-04	1.443E-04	QN	DN	F	Ľ.
Benz(a)anthracene	9	QN	QN	1.947E-04	1.947E-04	QN	QN	ıL	ц.
Chrysene	Q	QN	QN	2.102E-04	2.102E-04	QN	QN	L	ட
Di-n-octylphthalate	ON	QN	QN	1.344E-04	1.344E-04	S	g	ட	ш
7,12-Dimethylbenz(a)anthracene	Q	QN	QN	1.986E-04	1.986E-04	QN	ON	L.	ய
Benzo(b)fluoranthene (a)	QN	QN	QN	1.197E-04	1.197E-04	ON	ND	u.	u.
Benzo(k)fluoranthene (a)	9	QN	QN	2.502E-04	2.502E-04	ON	DN	ш	ււ
Benz(a)pyrene	2	QN	QN	1.417E-04	1.417E-04	QN	ND	u.	u.
3-Methylcholanthrene	2	QN	QN	5.039E-04	5.039E-04	ON	ON	ц.	ц.
Indeno(1,2,3-cd)pyrene	Q	QN	QN	9.433E-05	9.433E-05	QN	ND	ட	u.
Dibenz(a,h)anthracene	QN	ON	QN	1.060E-04	1.060E-04	QN	QN	ட	ц.
Benzo(g,h,i)perylene	QN	ND	QN	1.016E-04	1.016E-04	QN	QN	ш	F

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

A = Identified as a contaminant (greater than or equal to 10 times background or minimum MQL)

B = Likely contaminant (less than 10 and greater than or equal to 5 times background or minimum MQL)

C = Probable contaminant (less than 5 and greater than or equal to 2 times background or minimum MQL)

D = Measured, but accuracy or presence questionable (less than 2 and greater than or equal to 1 times background or minimum MQL)

F = Not considered a contaminant (less than 1 times background or minimum MQL)

TABLE A-8. AEC - SVOC RUN NO. 1 DATA FOR GREEN STAR CLUSTER TEST (31 MARCH 1998)

Particulate/Vapor-phase SVOCs 74 N-Nitrosodimethylamine 74 Pyridine 79 2-Picoline 93 Methyl methanesulfonate 110 N-Nitrosomethylethylamine 88 N-Nitrosodiethylamine 94 Phenol 94 Phenol 94 Phenol 94 Phenol 102 Prenol 124 Pentachloroetrane 129 1-3-Chloroetrane 147 1-3-Chlorobenzene 108 1-3-Chlorobenzene 106 1-3-Chlorobenzene 107 1-3-Chloropenzene 107 1-3-Chloropenzene 107 1-3-Chlorosporopyljether 107 4-Methylphenol/3-Methylphenol/3-Methylphenol 107 4-Methylphenol/3-Methylphenol 130 M-Nitroso-di-n-propylamine 130 A-chlorobenzene 130 M-Nitrosompholine 120 N-Nitrosompholine 116 N-Nitrosompholine 116	Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q		222222222222222222222222222222222222222	2000 000 000 000 000 000 000 000 000 00	0.8827 0.8827 0.8827 0.8827 0.8827 0.8827	QN QN				
nine and a mine a mi			222222222222222222222222222222222222222		0.8827 0.8827 0.8827 0.8827 0.8827 0.8827	Q Q	_			
anate Aarnine ne nate nate nate sate sate sate sate sate sate sate s			222222222222222222222222222222222222222		0.8827 0.8827 0.8827 0.8827 0.8827	9	34.602	QN	-	Q
anate Adamine Adamine Iste Iste Agriculturer Subylphenol Agrine		999999999999999999999	222222222222222222222222222222222222222		0.8827 0.8827 0.8827 0.8827	!!	34,602	2		QN
alamine her alte alte her her her alte alte alte althyphenol amine	99999999999999999999		222222222222222222222222222222222222222		0.8827	Q	34,602	Q	-	Q
Marnine ne late late her e s s s s strygbhenol darnine	9999999999999999999	Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	999999999999999		0.8827	Q	34,602	Q	-	Q
he late her her late	222222222222222222222222222222222222222	Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	99999999999999		0.8827	QV	34,602	Q.	-	Q
her	222222222222222222222222222222222222222	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	9999999999999	ON O	0.8827	Q	34,602	Q	-	QN
her b c c c) c) c) c) c) c) c) c)	222222222222222222222222222222222222222	222222222222222222222222222222222222222	999999999999	0	0.0021	QN	34,602	QN	1	QN
her 9 9 1/Jether 1thyphenol 1amine	222222222222222222222222222222222222222	222222222222222222222222222222222222222	99999999999		0.8827	QN	34,602	QN	1	QN
her. 9 (4)ether ethylphenol famine	2222222222222222	0 0 0 0 0 0 0 0 0 0 0 0 0	9999999999		0.8827	QN	34,602	QN	1	QN
all (Jether stryphenol lamine	222222222222222222222222222222222222222	999999999999999999999999999999999999999	999999999	ON NO ON NO ON ON ON ON ON ON ON ON ON O	0.8827	QN	34,602	QN	1	QN
// // // // // // // // // // // // //	22222222222		99999999	N N D ON	0.8827	QN	34,602	QN	1	QN
e bullether athyphenol		Q Q Q Q Q Q Q Q		ND N	0.8827	QN	34,602	QN	1	QN
o Al)ether ttry/phenol famine			222222	ND ND ON	0.8827	QN	34,602	ON	-	QN
d)ether titylphenol famine		QN QN QN QN QN	0 0 0 0	ND ND ND	0.8827	QN	34,602	QN	-	ON
e Alether stryghenol famine	222222		Q Q Q	ND ND ND	0.8827	QN	34,602	QN	-	QN
o Vijether sttyphenol tamine	22222	ON ON ON	QN QN	ON ON	0.8827	QN	34,602	ON	1	QN
(f)ether sthyphenol famine	2222	Q Q Q	22	ND	0.8827	QN	34,602	Q	-	QN
stryphenol tamine	222	<u>8</u> 8	2		0.8827	Q	34,602	Q	+	2
athylphenol flamine	22	ON.		Q	0.8827	Q	34,602	QN		Q
larnine	2	-	2	Q	0.8827	Q	34,602	Q	_	2
	,,,,	ON COLOR	ON C	ON S	0.8827	ON IS	34,602	ON S	-	ON C
) (N	5.830E-04	Z./U8E-04	3.1225-04	0.8827	3.53/E-04	34,602	7.641E-07	_].	7.641E-07
	2 2	2 2	2 2	2 2	0.002/	2 2	34,502	25	- -	2 2
Hexachloroethane	2 2	28	2 2	2 5	0.8827	2 2	34,602	2 2	-	SS
	2	G	S	S	0.8827	CZ CZ	34 602	2	-	2 2
indine	Q.	2	2	2	0.8827	Q	34,602	2		S
	Q	QN	QV	QN	0.8827	QN	34,602	Ð	-	Q
2,4-Dimethylphenol	ON	Q	Q	Ð	0.8827	Q	34,602	Q	_	2
	ON	ON	QN	ND	0.8827	QN	34,602	Q	-	ON
sthoxy)methane	QN	ON	ND	QN	0.8827	QN	34,602	QV	1	QN
Benzoic acid 122	2	Q	Q	QN	0.8827	QV	34,602	QN	1	QN
	2 2	2	Q	2	0.8827	Q.	34,602	9	-	9
openzene			ON C	ON	0.8827	ON I	34,602	QN .		Q
Naprimarene 128	0.13	6.994E-04	2.995E-04	3.999E-04	0.8827	4.530E-04	34,602	9.786E-07	-	9.786E-07
Con	2 2	2 2	2 2	2 2	0.8827	2 2	34,502	2 2	-	2
	S	2 5	25	2 5	0.0027	2 2	34 603		-	2 2
Hexachlorobutadiene 261	2	2	2	Q.	0.8827	Q	34 602	Ç Ç		2
ine	Q.	2	S	S	0.8827	GN	34 602	CN		S
0	Q	Ð	Q	Ð	0.8827	Q	34.602	2	_	2
4-Chloro-3-methylphenol	QN	Q	Q	Q	0.8827	Q	34,602	QN	-	QN.
Safrole 162	ON	QV	Q	Q	0.8827	2	34,602	Q	-	QN
2-Methylnaphthalene 142	0.046	2.725E-04	QN	2.725E-04	0.8827	3.087E-04	34,602	6.669E-07	-	6.669E-07
	9	Q	ON	QN	0.8827	ON	34,602	QN	1	ON
diene	Q	Q	Ð	Q	0.8827	Q	34,602	QN	1	QN
2,4,6-Trichlorophenol	Q	Q	Q	QV	0.8827	Q	34,602	Q	1	Q

TABLE A-8. AEC - SVOC RUN NO. 1 DATA FOR GREEN STAR CLUSTER TEST (31 MARCH 1998)

	Molecular	Average Concentration -	Average Concentration -	Background - Concentration,	Background Corrected Concentration -	Dilution Correction	Corrected Concentration -	Initial Plume	Sample Total Material - Run	Number of	Corrected Emission Factor - Run
Compound	Weight	Run 1, ppbv	Run 1, mg/m³	mg/m³	Run 1, mg/m³	Factor (b), %	Run 1, mg/m³	Volume, ft³	1, lb	Items	1, lb/item
2,4,5-Trichlorophenol	197	QN	ON	ON	ND	0.8827	QN	34,602	QN	1	Q
Isosafrole	162	ON	QN	ND	ND	0.8827	QN	34,602	Q	1	2
2-Chloronaphthalene	163	QN	QN	QN	ΩN	0.8827	ŇD	34,602	QN	1	Q
2-Nitroaniline	138	2	QV	QN	QN	0.8827	Q	34,602	QV	-	QN
1,4-Naphthoquinone	158	ΟŅ	QN	ND	ND	0.8827	Q	34,602	Q	-	Q
Dimethylphthalate	194	QN	QN	QN	QN	0.8827	ON	34,602	QN	1	ON
1,3-Dinitrobenzene	168	QN	QN	ON	QN	0.8827	QN	34,602	QN	-	QN
2,6-Dinitrotoluene	182	QN	QN	QN	QN	0.8827	ON	34,602	QN	-	ON
Acenaphthylene	152	ON	QN	QN	QN	0.8827	QN	34,602	QN	-	ON
3-Nitroaniline	138	Q	Q	Q	2	0.8827	Q	34,602	QN	-	Q.
4-Nitrophenol	139	2	Q	QN	QN	0.8827	QN	34,602	Q	-	Q
2,4-Dinitrophenol	184	QN	QV	Q	Q	0.8827	Q	34,602	Q	-	Q
Acenaphthene	154	Q	2	QN	QV	0.8827	QN	34,602	Q	-	Q.
2,4-Dinitrotoluene	182	9	Q	QN	QN	0.8827	Q	34,602	Q	-	Q
Dibenzofuran	168	Q	Q	QN	QN	0.8827	Q	34,602	Q	-	Q
Pentachiorobenzene	250	2	2	QN	Q	0.8827	Q	34,602	2	-	Q
1-Naphthylamine	143	2	2	Q.	Q.	0.8827	Q	34,602	2		QV.
2-Naphthylamine	143	Q	2	Q	QN	0.8827	2	34,602	2	-	Q
2,3,4,6-Tetrachlorophenol	232	ON S	ON COLOR	QN C	QN 2	0.8827	QN C	34,602	QN S	- .	ON ON
Dietnyiphthalate	777	20.03	8.9565-04	3.475E-04	5.482E-04	0.8827	6.210E-04	34,602	1.342E-06	- ,	1.342E-U0
4-Chlorophenyiphenyi ether	502	2	2	ON.	ON S	0.8827	Q S	34,602	2	-	2
rluorene	991	2 2	2 2	2 2	2 2	0.8827	2 2	34,602	2 2	- ,	2 2
2-INITO-0-toluloirie	132	2 2	2 2	2	ON C	0.0027	ON CAR	24,002	2 2	-	2 2
4 6 Division 2 mothylobocol	130	2 2	2 2	2 2	2 2	0.0027	2 2	34,002	2 2	-	2 2
Diobookamico/N. NikocoOo	150	2 2	2 2	Q Q		0.0027	O C	34,602	2 2	-	2 2
Sym-Trialitobourana	513	2 2	2 2	2 2	ON CIN	0.8827	S CN	34,602	2 2		2 2
Diallate	270	2 2	2 2	C C		0.8827	2 2	34,603	2 5	-	2 2
Phonacetin	179	2 5	2 5	2 2	2 2	0.8827	2 2	34 602	2 5	-	2 5
4-Bromophenylphenyl ether	249	S S	2 2	S	2 2	0.8827	2 2	34 602	2 5	-	2 2
Hexachlorobenzene	285	Q.	S	S	S	0.8827	S	34 602	Ş	-	Ş
4-Aminobiohenvi	169	2	Q	CN	QN	0.8827	CX	34.602	S	-	CN
Pronamide	228	Q	2	2	S	0.8827	Q.	34,602	2	-	QN
Pentachlorophenol	266	Q	Q	Q	Q	0.8827	QN	34,602	QV	-	QN
Pentachtoronitrobenzene	295	QN	QN	Q	Q	0.8827	QN	34,602	Q	1	QN
Phenanthrene	178	QN	QN	QN	ON	0.8827	QN	34,602	QN	1	QN
Anthracene	178	Q	Q	QN	QN	0.8827	QN	34,602	ON	-	QN
Carbazole	167	Q	QN	QN	QN	0.8827	QN	34,602	QN	ŀ	QN
Di-n-butylphthalate	278	0.113	1.302 E-03	1.357E-03	-5.494E-05	0.8827	QV	34,602	QN	-	Q
4-Nitroquinoline-1-oxide	190	Q	Ð	QV	QN	0.8827	QN	34,602	QV	•	Q
Methapyrilene	261	Q	Q	QN	QN	0.8827	Q	34,602	Q	1	QN
Fluoranthene	202	Q	9	QV	QN	0.8827	Q	34,602	Q	·	QN
Benzidine	184	Q	ON	QN	QN	0.8827	QN	34,602	ND	ŀ	QN
Pyrene	202	Q	Q	Q	Q	0.8827	Q	34,602	Q	-	Q
p-Dimethylaminoazobenzene	225	Q	Q	Q	ON	0.8827	Q	34,602	QN	-	QN
Chlorobenzilate	325	Ð	QN	QV	QV	0.8827	Q	34,602	QN	-	Q
Kepone	491	S	Q	QN	QN	0.8827	QN	34,602	Q	1	QN
Butylbenzylphthalate	312		Q	9	9	0.8827	9	34,602	Q	-	Q.
3,3'-Dimethylbenzidine	212	2	Q	Q	9	0.8827	9	34,602	Q	_	Q
Z-Acetylaminoriuorene	223	S	Q	S	2	0.8827	Š	34,602	S.	_	Ŋ

TABLE A-8. AEC - SVOC RUN NO. 1 DATA FOR GREEN STAR CLUSTER TEST (31 MARCH 1998)

		_											
Corrected Emission Factor - Run 1, Ib/Item	1.646E-05	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	Q	QN
Number of Items	-	-	1	1	1	1	1	-	-	1	1	-	1
Sample Total Material - Run 1, Ib	1.646E-05	Q	QN	QN	QN	QN	Q	Q	QV	QN	Q	Q	QN
Initial Plume	34,602	34,602	34,602	34,602	34,602	34,602	34,602	34,602	34,602	34,602	34,602	34,602	34,602
Corrected Concentration- Run 1, mg/m³	7.618E-03	QN ·	QN	QN	QN	QN	Q	S	Q	QN	QN	QN	ND
Dilution Correction Factor (b), %	0.8827	0.8827	0.8827	0.8827	0.8827	0.8827	0.8827	0.8827	0.8827	0.8827	0.8827	0.8827	0.8827
Background Corrected Concentration - Run 1, mg/m³	6.725E-03	Q	QN	QN	QN	QN	QN	Q	QN	QN	QN	QN	ND
Background - Concentration, mg/m³	Q	QN	QN	QN	QN	QN	QN	9	QN	QN	QN	QN	QN
Average Concentration - Run 1, mg/m³	6.725E-03	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	ND
Average Concentration - Run 1, ppbv	0.413	Q	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN
Molecular Weight	391	253	228	228	391	256	252	252	252	268	276	278	276
Compound	is(2-Ethylhexyl)phthalate	,3-Dichlorobenzidine	Benz(a)anthracene	thrysene	i-n-octylphthalate	,12-Dimethylbenz(a)anthracene	lenzo(b)fluoranthene (a)	lenzo(k)fluoranthene (a)	lenz(a)pyrene	-Methylcholanthrene	ndeno(1,2,3-cd)pyrene	libenz(a,h)anthracene	lenzo(g,h,i)perylene

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers. b Estimated from tracer data as presented in Volume IV.

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GREEN PARACHUTE SIGNAL FLARE

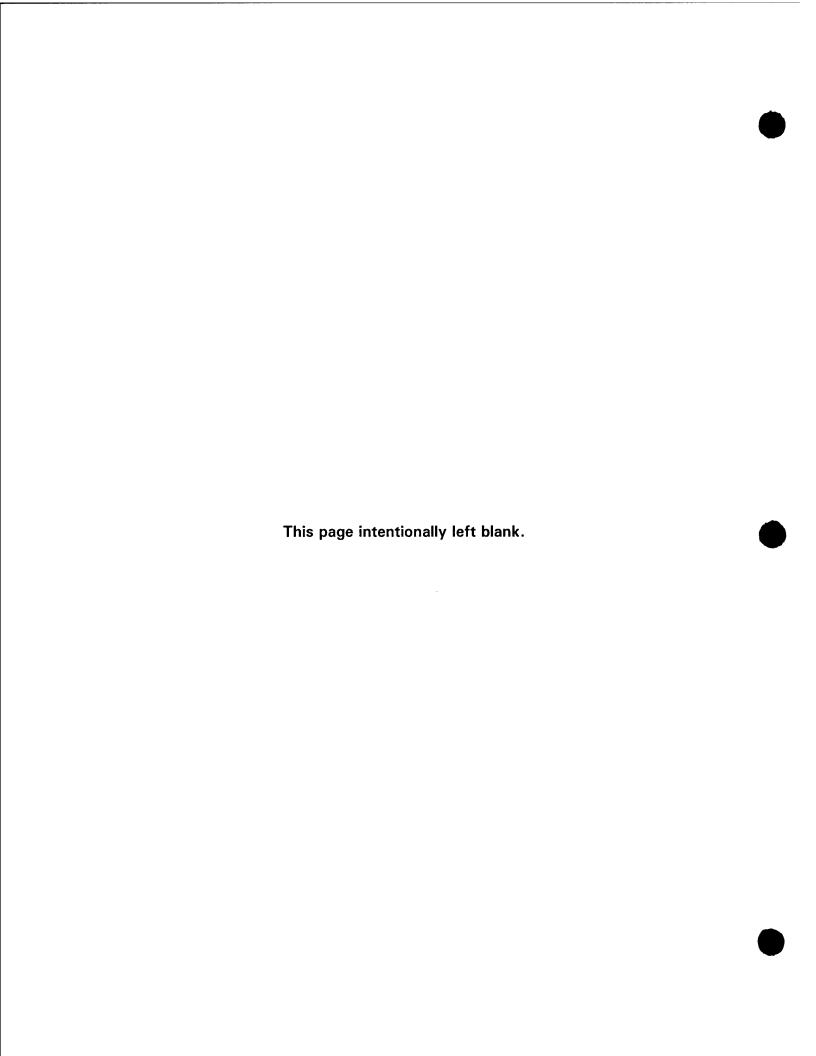


TABLE A-1. AEC MUNITION ITEM INPUT DATA SHEET (31 MARCH 1998)
Munition Item: Green Parachute Signal Flare
Created by: Radian International LLC

Sample Volumes:	Run	No. 1	Run	No. 2	Run l	No. 3	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(ft³)
TSP	509.2	626.8	NA	NA NA	NA I	NA	567.98
PM ₁₀	302.7	324.3	NA	NA	NA	NA NA	313.52
Metals	509.2	626.8	NA	NA	NA	NA NA	567.98
VOCs	NA	NA	NA	NA	NA NA	NA NA	NA
SVOCs	75.2	64.8	NA	NA	NA NA	NA NA	69.98
HCI/CI₂	28.7	23.0	NA	NA	NA	NA	25.85
Energetics	NA	NA	NA	NA	NA	NA NA	NA NA
Dioxin/Furan	106.0	93.7	NA	NA NA	NA NA	NA NA	
Residue	NA	NA	NA	NA NA	NA NA	NA NA	99.81
CEM	NA	NA	NA	NA NA	NA NA	NA NA	NA NA

Sample Volumes:	Run No. 1		Run No. 2		Run No. 3		Average	
	Train A	Train B	Train A	Train B	Train A	Train B	(mL)	
HCI/CI ₂ (H ₂ SO ₄)	43.5	45.0	NA	NA	NA	NA	44.25	
HCl/Cl₂ (NaOH)	40.0	40.5	NA	NA	NA	NA	40.25	

Sample Weight Gain:	Run	No. 1	Run	No. 2	Run No. 3			
	Train A	Train B	Train A	Train B	Train A	Train B	(g)	
TSP	0.8734	0.8782	NA	NA	NA	NA	0.8758	
PM ₁₀	0.3787	0.4867	NA	NA	NA	NA	0.4327	

Dilution Correction Factors:	Run No. 1	Run No. 2	Run No. 3	Average
TSP	0.8762	NA	NA	0.8762
PM ₁₀	0.9151	NA	NA	0.9151
Metals	0.8762	NA	NA	0.8762
VOCs	0.9429	NA	NA	0.9429
SVOCs	0.8575	NA	NA	0.8575
HCI/CI ₂	0.8575	NA	NA	0.8575
Energetics	NA	NA	NA	NA
Dioxin/Furan	0.8575	NA	NA	0.8575
Residue	NA	NA	NA	NA
CEM	0.8767	NA	NA NA	0.8767

2x - xx x x x x x x x x x x x x x x x x	Run No. 1	Run No. 2	≅Run No. 3	Average
Initial Plume Volume (m3)	968.70	NA	NA	968.70
Net Explosive Weight (g)	143.34	NA .	NA	143.34

TABLE A-2. AEC BACKGROUND INPUT DATA SHEET (31 MARCH 1998)
Munition Item: Green Parachute Signal Flare
Created by: Radian International LLC

Sample Volumes:	WP - Background		Reagent Blank		Field Blank		Average	
	Train A	Train B	Train A	Train B	Train A	Train B	(ft³)	
TSP	1360.6	NA	NA	NA	NA	NA	1360.64	
PM ₁₀	1008.5	NA	NA	NA	NA	NA	1008.45	
Metals	1360.6	NA	NA	NA	NA	NA	1360.64	
VOCs	NA NA	NA	NA	NA	NA	NA	NA	
SVOCs	117.9	NA	NA	NA	NA	NA	117.90	
HCI/Cl ₂	29.9	NA	NA	NA	NA	NA	29.93	
Energetics	NA NA	NA	NA	NA	NA	NA	NA	
Dioxin/Furan	156.5	NA	NA	NA	NA	NA	156.49	
Residue	NA NA	NA	NA	NA	NA	NA	NA	
CEM	NA NA	NA	NA	NA	NA	NA	NA	

Sample Volumes:	WP - Background		Reagent Blank		Field Blank		Average
	Train A	Train B	Train A	Train B	Train A	Train B	(mL)
HCI/Cl ₂ (H ₂ SO ₄)	42.5	NA	107.2	NA	45.3	NA	42.50
HCI/CI ₂ (NaOH)	37.0	NA	92.0	NA	41.5	NA	37.00
HCI/Cl ₂ (H ₂ O)	NA	NA	100.0	NA	NA	NA	#DIV/0!

Sample Weight Gain:	WP - Background		Reagent Blank		Field Blank		Average
	Train A	Train B	Train A	Train B	Train A	Train B	(g)
TSP	0.0015	NA NA	-0.0026	NA	-0.0037	NA	0.0015
PM ₁₀	0.0027	NA	-0.0002	NA	-0.0029	NA	0.0027

TABLE A-3. AEC - TSP, PM, HCIVCI, DIOXINFURAN, CO, CO, NOX, SO, AND METALS DATA EVALUATION FOR GREEN PARACHUTE SIGNAL FLARE TEST (31 MARCH 1998)

	Average Concentration -	Average Concentration -	Average Background - Concentration,	Average Maximum Detection Limit - Concentration,	Average Minimum Detection Limit - Concentration,	Background Evaluation	Minimum Detection Limit Evaluation	Background Evaluation	Minimum Defection Limit Evaluation
Compound	Run 1, mg/m³	Run 1, mg/m³	_mg/m_	mg/m³	mg/m³	Criteria	Criteria	Notes	Notes
Particulate									
TSP	5.503E+01	5.503E+01	3.893E-02	Q	QN	1413.46	10.00	A	A
PM ₁₀	4.859E+01	4.859E+01	9.455E-02	QN	QN	513.88	10.00	٧	٧
Hudraces Chloride (HCIVChlorine (CL)									
HCI	QN	2	ON.	6.829E-02	6.604E-02	Q	QN	L	L
Ö,	1.574E-02	1.574E-02	1.380E-02	1.680E-03	1.653E-03	1.14	9.52	۵	8
Dioxin/TEO (a)	1 380E-09	1 380F-09	1.512E-10	CZ	QN	9.13	10.00	B	¥
בוסאווו ורכ (מ)	2000-1	20 - 2000.1							
Continuous Emissions Monitoring (CEM) System	System								
Carbon Monoxide (CO)	3.939E+00	3.939E+00	5.106E-01	QN	QN	7.71	10.00	8	٧
Nitrogen Oxide (NOx)	9.963E-01	9.963E-01	1.313E-01	QN	QN	7.59	10.00	В	∢
HCI	-3.659E-01	-3.659E-01	-3.404E-01	QN	QN	1.07	10.00	۵	٧
Carbon Dioxide (CO ₂)	7.370E+02	7.370E+02	7.034E+02	QN	ND	1.05	10.00	D	∢
Sulfur Dioxide (SO ₂)	7.964E-04	7.964E-04	-2.560E-02	Q	QN	60.0	10.00	ц.	A
Particulate-phase Metals									
Aluminum	3.827E-02	3.827E-02	NA (b)	1.247E-03	9.475E-04	NA (b)	40.39	NA (D)	۷ (
Antimony	4.842E-04	4.842E-04	NA (b)	1.792E-04	1.356E-04	(Q) NA (D)	3.57	NA (b)	اد
Arsenic	Q	Q	NA (b)	1.231E-04	9.312E-05	NA (b)	2	NA (b)	-
Barium	3.535E+00	3.535E+00	NA (b)	1.367E-05	1.035E-05	NA (b)	341704.24	NA (b)	∢ .
Beryllium	6.674E-06	6.674E-06	NA (b)	7.623E-06	5.772E-06	NA (b)	1.16	NA (b)	۵
Cadmium	4.751E-04	4.751E-04	NA (b)	1.519E-05	1.149E-05	NA (b)	41.35	NA (b)	V.
Chromium	2.984E-03	2.984E-03	NA (b)	2.685E-05	2.031E-05	NA (b)	146.91	NA (b)	Α.
Cobalt	1.492E-03	1.492E-03	NA (b)	2.685E-05	2.031E-05	NA (b)	73.46	NA (b)	A
Copper	5.651E-03	5.651E-03	NA (b)	6.589E-05	4.982E-05	NA (b)	113.42	NA (b)	4
Lead	1.887E-04	1.887E-04	NA (b)	1.013E-04	7.678E-05	NA (b)	2.46	NA (b)	S
Magnesium	1.113E+01	1.113E+01	NA (b)	2.625E-04	1.988E-04	NA (b)	56010.54	NA (b)	٧
Manganese	4.658E-03	4.658E-03	NA (b)	1.165E-05	8.821E-06	NA (b)	528.05	NA (b)	¥
Nickel	2.130E-04	2.130E-04	NA (b)	4.100E-05	3.104E-05	NA (b)	6.86	NA (b)	В
Phosphorus	4.809E-03	4.809E-03	(p) NA	2.881E-04	2.184E-04	NA (b)	22.02	NA (b)	A
Selenium	QN	QN	NA (b)	9.802E-05	7.406E-05	NA (b)	Q	NA (b)	ш
Silver	QN	QN	NA (b)	1.824E-05	1.383E-05	NA (b)	Q	NA (b)	ц
Thallium	QN	ON	NA (b)	2.309E-04	1.748E-04	NA (b)	2	NA (b)	ட
Zinc	1.518E-03	1.518E-03	NA (b)	2.194E-04	1.661E-04	NA (b)	9.14	NA (b)	8
Moreita	5 603F-06	5.603E-06	(h) NN	4 433E-07	4 313F-07	ZA (E)	12.99	(Q) A(Q)	<

Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD.

insufficient material to analyze.

A = Identified as a contaminant (greater than or equal to 10 times background or minimum MQL)

B = Likely contaminant (less than 10 and greater than or equal to 5 times background or minimum MQL)

C = Probable contaminant (less than 5 and greater than or equal to 2 times background or minimum MQL)

D = Measured, but accuracy or presence questionable (less than 2 and greater than or equal to 1 times background or minimum MQL)

F = Not considered a contaminant (less than 1 times background or minimum MQL)

TABLE A-4. AEC - TSP, PM₁₀, HCUCI₃, DIOXIN/FURAN, CO, CO₃, NO₃, SO₂, AND METALS RUN NO. 1 DATA FOR GREEN PARACHUTE SIGNAL FLARE (31 MARCH 1998)

Fun 1, ppbv ND 5.338 5.338 5.338 5.0620 5.204 292 402662.400 0.299 6.299 0.095 ND 620.319 6.0102 1.379	Run 1, mg/m³ 5.503E+01 4.859E+01 ND 1.574E-02		Concentration	101100000	Corrected	Initial Diame	Sample Total		Emission Contraction
Furan	5.503E+01 4.859E+01 ND 1.574E-02	mg/m³	Run 1, mg/m³	Factor (a), %	Run 1, mg/m³	Volume, ft	Materiai - Hun 1, Ib	Number of Items	1, Ib/item
lete Chloride (HCI)/Chlorine (Cl ₂) Furan Furan Folion Lous Emissions Monitoring (CEM) System Monoxide (CO) Loxide (NOx) Monoxide (CO ₂) Dioxide (SO ₂) In Coxide (NOx) Monoxide (SO ₂) Mon	5.503E+01 4.859E+01 ND 1.574E-02								
en Chloride (HCI)/Chlorine (Cb) 36 ND 71 5.338	5.503E+01 4.859E+01 ND 1.574E-02								
Euran Eu Chloride (HCI)/Chlorine (CL) Sear ND 71 5.338 ND 71 5.338 ND 71 5.338 ND 1004 Emissions Monitoring (CEM) System Monoxide (CO) Noxide (NOx) Monoxide (CO ₂) Noxide (NOx) Monoxide (NOx)	4.859E+01 ND 1.574E-02	3.893E-02	5.499E+01	0.8762	6.276E+01	34,209	1.340E-01	1	1.340E-01
Furan 71 5.338 ND 72 ND ND ND ND ND ND ND N	ND 1 5746-02	9.455E-02	4.849E+01	0.9151	5.299E+01	34,209	1.132E-01	1	1.132E-01
Section Control Cont	ND 1 574E-02								
Furan 71 5.336 ND EQ (c)	ND 1.574E-02								
Furen FEQ (c) LOUS Emissions Monitoring (CEM) System Monoxide (CO) LOXide (NOx) Monoxide (CO ₂) LOXide (NOx) Monoxide (CO ₂) LOXide (NOx) Monoxide (CO ₂) LOXIDE Monoxide (CO ₂) Monoxide (CO ₂) LOXIDE Monoxide (CO ₂) Monoxide	1.574E-02	Q	QN	0.8575	ND	34,209	QN	-	2
Furant - - EQ (c) - - Lous Emissions Monitoring (CEM) System 28 3381.302 Monoxide (CO) 28 3381.302 1 Oxide (NOx) 46 520.620 Dioxide (NOx) 36 -244.292 Bioxide (SO₂) 44 402662.400 Riete-phase Metals 64 0.299 In 27 34.073 N 75 ND N 75 0.018 N 75 1.379 N 72 1.379	===::::::::::::::::::::::::::::::::::::	1.380E-02	1.939E-03	0.8575	2.261E-03	34,209	4.830E-06	1	4.830E-06
Lous Emissions Monitoring (CEM) System 28 3381.302 Monoxide (CO) 28 3381.302 Noxide (NOx) 46 520.620 Dioxide (NOx) 36 -244.292 Dioxide (SO₂) 44 402662.400 Riete-phase Metals 64 0.299 Interphase Metals 27 34.073 N 75 ND N 75 ND N 137 620.319 N 137 620.319 N 137 6.018 N 172 0.018 N 172 0.018 N 172 0.018 N 172 0.018 N 172 0.012 N 172 0.012 N 172 0.0102 N 172 0.0102									
Let (c) Let	1000								
Lous Emissions Monitoring (CEM) System Monoxide (CO) 28 3381.302 1 Oxide (NOx) 46 520.620 Dioxide (CO ₂) 44 42662.400 Dioxide (CO ₂) 64 0.299 iiste-phase Metals 27 34.073 m 122 0.095 n 75 ND n 137 620.319 n 137 620.319 n 122 0.018 n 122 0.018 n 137 620.319 n 122 0.102 n 52 1.379	1.380=-09	1.512E-10	1.229E-09	0.8575	1.433E-09	34,209	3.060E-12	-	3.060E-12
Monoxide (CO) 28 3381.302 1 Oxide (NOx) 46 520.620 244.292 Dioxide (CO ₂) 44 402662.400 Ioxide (CO ₂) 64 0.299 Iste_phase Metals In 122 0.095 In 122 0.095 In 122 0.018 In 122 0.102 In 123 0.018									
Oxide (NOx) 46 520.620	3.939E+00	5.106E-01	3.428E+00	0.8767	3.910E+00	34 209	8 350F-03	-	8 350F-03
Dioxide (CO ₂) 36 -244.292 Dioxide (CO ₂) 44 42.562.400 Sate-phase Metals 27 34.073 Mm 122 0.095 Mm 137 620.319 Mm 112 0.102 Mm 122 0.018 Mm 122 0.018 Mm 137 0.102 Mm 55 1.379 Dioxide (CO ₂) 1.379	9.963E-01	1.313E-01	8.650E-01	0.8767	9.866E-01	34,209	2.107E-03	-	2.107E-03
Dioxide (CO ₂) 44 402662.400 loxide (SO ₂) 64 0.299	-3.659E-01	-3.404E-01	-2.541E-02	0.8767	QN	34,209	QN	-	Q
ioxide (SO ₂) 64 0.299 late-phase Metals m 27 34.073 y 122 0.095 75 ND 137 620.319 m 112 0.018 m 12 0.018	7.370E+02	7.034E+02	3.359E+01	0.8767	3.831E+01	34,209	8.182E-02	1	8.182E-02
Marke Metals 27 34.073 My 122 0.095 To ND 137 620.319 To H 137 620.319 To H 12 0.008 To H 12 0.008 To H 12 0.008	7.964E-04	-2.560E-02	2.640E-02	0.8767	3.011E-02	34,209	6.430E-05	-	6.430E-05
Marie Metals 27 34.073 Marie Metals 27 34.073 Marie Metals Met									
y 27 34.073 y 122 0.095 75 ND 75 R20.319 n 9 0.018 m 52 1.379									
75 0.095 75 ND 75 ND 77 620.319 71 0.008	3.827E-02	NA (d)	3.827E-02	0.8762	4.368E-02	34,209	9.328E-05	1	9.328E-05
75 ND ND 137 620.319 m 9 0.018 m 112 0.102 m 52 1.379 m	4.842E-04	NA (d)	4.842E-04	0.8762	5.526E-04	34,209	1.180E-06	1	1.180E-06
137 620.319 Th 9 0.018 Th 112 0.102 Th 52 1.379	2	NA (d)	Q	0.8762	QN	34,209	QN	-	Q
112 0.102 1.112 0.102 1.379 1.379	3.535E+00	NA (d)	3.535E+00	0.8762	4.035E+00	34,209	8.617E-03	1	8.617E-03
112 0.102	6.674E-06	NA (d)	6.674E-06	0.8762	7.617E-06	34,209	1.627E-08	1	1.627E-08
52 1:379	4.751E-04	NA (d)	4.751E-04	0.8762	5.422E-04	34,209	1.158E-06	1	1.158E-06
	2.984E-03	NA (d)	2.984E-03	0.8762	3.405E-03	34,209	7.273E-06	-	7.273E-06
93 0.908	1.492E-03	NA (d)	1.492E-03	0.8762	1.703E-03	34,209	3.637E-06	1	3.637E-06
er 64 2.123	5.651E-03	NA (d)	5.651E-03	0.8762	6.450E-03	34,209	1.377E-05	-	1.377E-05
207 0.022	1.887E-04	NA (d)	1.887E-04	0.8762	2.153E-04	34,209	4.599E-07	-	4.599E-07
24 11150.201	1.113E+01	NA (d)	1.113E+01	0.8762	1.271E+01	34,209	2.713E-02	1	2.713E-02
nese 55 2.036	4.658E-03	NA (d)	4.658E-03	0.8762	5.316E-03	34,209	1.135E-05	1	1.135E-05
59 0.087 2.1	2.130E-04	NA (d)	2.130E-04	0.8762	2.431E-04	34,209	5.191E-07	1	5.191E-07
us 31 3.729 4.8	4.809E-03	NA (d)	4.809E-03	0.8762	5.489E-03	34,209	1.172E-05	1	1.172E-05
UN 29 MD	Q	NA (d)	Q	0.8762	Ω	34,209	Q	1	Q
108 ND	Q	NA (d)	Q	0.8762	Q	34,209	QN	-	Q
Jm 204 ND	Q	NA (d)	Q	0.8762	Q	34,209	Q	1	QN
65 0.561	1.518E-03	NA (d)	1.518E-03	0.8762	1.732E-03	34,209	3.699E-06	1	3.699E-06
0.001	5.603E-06	NA (d)	5.603E-06	0.8762	6.394E-06	34,209	1.366E-08	-	1.366E-08

a
Estimated from tracer data as presented in Volume IV.
b
HCI/Cl₂ levels were too low to be reliably measured.

c . Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD. Presence questionable - reported at similar levels in samples and blanks.

d Insufficient material to analyze.

TABLE A-5. AEC - VOC DATA EVALUATION FOR GREEN PARACHUTE SIGNAL FLARE TEST (31 MARCH 1998)

	Average	Average	Average Background -	Average Maximum Detection Limit -	Average Minimum Detection Limit	Background	Minimum	Background	Minimum Detection 1 inft
Compound (a)	Concentration - Run 1, mg/m²	Concentration - Run 1, mg/m³	Concentration, mg/m³	Concentration, mg/m³	Concentration, mg/m³்	Evaluation Criteria	Evaluation Criteria	Evaluation Notes	Evaluation Notes
Total Mormothan Didescent and Table	1								
TOTAL TOTAL TOTAL OCCUPANTO TOTAL TO	1.380E-01	1.380E-01	6.070E-02	1.000E-04	1.000E-04	2.27	1379.50	S	A
Volatile Organic Compounds (VOCs)									
Ethane	5.000E-03	5.000E-03	1.900E-03	1.000E-04	1.000E-04	2.63	50.00	O	A
Ethylene	2.605E-02	2.605E-02	8.000E-04	1.000E-04	1.000E-04	32.56	260.50	A	A
Acetylene	1.390E-02	1.390E-02	2.800E-03	1.000E-04	1.000È-04	4.96	139.00	ပ	٨
Propane	1.900E-03	1.900E-03	1.400E-03	1.000E-04	1.000E-04	1.36	19.00	۵	¥
Propene	7.650E-03	7.650E-03	7.000E-04	1.000E-04	1.000E-04	10.93	76.50	А	A
i-Butane	4.000E-04	4.000E-04	4.000E-04	1.000E-04	1.000E-04	1.00	4.00	D	ပ
i-Butene	9.500E-04	9.500E-04	4.000E-04	1.000E-04	1.000E-04	2.38	9.50	ပ	Ф
1-Butene	2.350E-03	2.350E-03	2.000E-04	1.000E-04	1.000E-04	11.75	23.50	¥	¥
1,3-Butadiene	1.750E-03	1.750E-03	2.000E-04	1.000E-04	1.000E-04	8.75	17.50	В	A
n-Butane	1.250E-03	1.250E-03	1.100E-03	1.000E-04	1.000E-04	1.14	12.50	O	A
trans-2-Butene	1.100E-03	1.100E-03	3.000E-04	1.000E-04	1.000E-04	3.67	11.00	ပ	ď
2,2-Dimethylpropane	9	ON	ND	1.000E-04	1.000E-04	ON	QN	и.	ш
cis-2-Butene	3.000E-04	3.000E-04	1.000E-04	1.000E-04	1.000E-04	3.00	3.00	ပ	ပ
3-Methyl-1-butene	1.000E-04	1.000E-04	QN	1.000E-04	1.000E-04	10.00	1.00	٧	٥
i-Pentane	1.500E-03	1.500E-03	1.600E-03	1.000E-04	1.000E-04	0.94	15.00	Ш	4
1-Pentene	4.000E-04	4.000E-04	QN	1.000E-04	1.000E-04	10.00	4.00	A	O
2-Methyl-1-butene	1.500E-04	1.500E-04	QN	1.000E-04	1.000E-04	10.00	1.50	¥	۵
n-Pentane	1.650E-03	1.650E-03	1.600E-03	1.000E-04	1.000E-04	1.03	16.50	D	A
Isoprene	1.000E-04	1.000E-04	2.000E-04	1.000E-04	1.000E-04	0.50	1.00	Ь	Q
trans-2-Pentene	2.000E-04	2.000E-04	2	1.000E-04	1.000E-04	10.00	2.00	A	ပ
cis-2-Pentene	2.000E-04	2.000E-04	9	1.000E-04	1.000E-04	10.00	2.00	A	၁
2-Methyl-2-butene	1.000E-04	1.000E-04	9	1.000E-04	1.000E-04	10.00	1.00	A	D
2,2-Dimethylbutane	2.000E-04	2.000E-04	6.000E-04	1.000E-04	1.000E-04	0.33	2.00	F	၁
Cyclopentene	Q	9	Q	1.000E-04	1.000E-04	ON	ON	Ŧ	L.
4-Methyl-1-pentene	2	Q	9	1.000E-04	1.000E-04	QN	QN	F	Ŧ
Cyclopentane	Q	9	1.000E-04	1.000E-04	1.000E-04	Q	2	Ц	F
2,3-Dimethylbutane	6.500E-04	6.500E-04	5.000E-04	1.000E-04	1.000E-04	1.30	6.50	۵	В
cis-4-Metnyl-2-pentene	Q	QN	2	1.000E-04	1.000E-04	Q	QN	F	Ŧ
2-Methylpentane	1.400E-03	1.400E-03	1.900E-03	1.000E-04	1.000E-04	0.74	14.00	F	A
3-Methylpentane	3.000E-04	3.000E-04	1.000E-03	1.000E-04	1.000E-04	0.30	3.00	T.	ပ
2-Methyl-1-pentene	2	Q	Q	1.000E-04	1.000E-04	QN	QN	ц	u.
1-Hexene	3.500E-04	3.500E-04	ND	1.000E-04	1.000E-04	10.00	3.50	¥	O
n-Hexane	1.500E-03	1.500E-03	1.600E-03	1.000E-04	1.000E-04	0.94	15.00	ı	¥
trans-2-Hexene	1.000E-04	1.000E-04	QN	1.000E-04	1.000E-04	10.00	1.00	¥	٥
2-Methyl-2-pentene	1.000E-04	1.000E-04	ON	1.000E-04	1.000E-04	10.00	1.00	¥	۵
cis-2-Hexene	1.000E-04	1.000E-04	QV	1.000E-04	1.000E-04	10.00	1.00	¥	۵
Methylcyclopentane	5.500E-04	5.500E-04	6.000E-04	1.000E-04	1.000E-04	0.92	5.50	ш	m
2,4-Dimethylpentane	1.100E-03	1.100E-03	1.000E-03	1.000E-04	1.000E-04	1.10	11.00	۵	¥
								_	

TABLE A-5. AEC - VOC DATA EVALUATION FOR GREEN PARACHUTE SIGNAL FLARE TEST (31 MARCH 1998)

	Average	Average	Average Background -	Average Maximum Detection Limit -	Average Minimum Detection Limit -	Background	Minimum Detection Limit	Background	Minimum Detection Limit
Compound (a)	Concentration - Run 1, mg/m³	Concentration - Run 1, mg/m³	Concentration, mg/m³	Concentration, mg/m³	Concentration, mg/m³	Evaluation Criteria	Evaluation Criteria	Evaluation Notes	Evaluation Notes
Ranzene	8 050F-03	8 050E-03	2.300E-03	1.000E-04	1.000E-04	3.50	80.50	O	A
Ovclohexane	5.000E-04	5.000E-04	6.000E-04	1.000E-04	1.000E-04	0.83	5.00	F	В
2-Methylhexane	7.500E-04	7.500E-04	7.000E-04	1.000E-04	1.000E-04	1.07	7.50	D	В
2.3-Dimethylpentane	2.150E-03	2.150E-03	2.100E-03	1.000E-04	1.000E-04	1.02	21.50	٥	4
3-Methylhexane	7.500E-04	7.500E-04	1.000E-03	1.000E-04	1.000E-04	0.75	7.50	L	Ф
2.2.4-Trimethylpentane	4.100E-03	4.100E-03	4.200E-03	1.000E-04	1.000E-04	0.98	41.00	Ľ.	A
n-Heptane	7.000E-04	7.000E-04	7.000E-04	1.000E-04	1.000E-04	1.00	7.00	٥	Ф
2,4,4-Trimethyl-1-pentene	Q	QN	QV	1.000E-04	1.000E-04	ND	QN	ட	L.
Methylcyclohexane	4.500E-04	4.500E-04	5.000E-04	1.000E-04	1.000E-04	06.0	4.50	ட	ပ
2,4,4-Trimethyl-2-pentene	QN	QN	9	1.000E-04	1.000E-04	ND	ON	ı	ட
2,5-Dimethylhexane	3.500E-04	3.500E-04	4.000E-04	1.000E-04	1.000E-04	0.88	3.50	ட	ပ
2,4-Dimethylhexane	5.000E-04	5.000E-04	5.000E-04	1.000E-04	1.000E-04	1.00	5.00	۵	മ
2,3,4-Trimethylpentane	1.000E-03	1.000E-03	1.000E-03	1.000E-04	1.000E-04	1.00	10.00	۵	A
Toluene	5.700E-03	5.700E-03	5.000E-03	1.000E-04	1.000E-04	1.14	57.00	۵	¥
2,3-Dimethylhexane	3.500E-04	3.500E-04	4.000E-04	1.000E-04	1.000E-04	0.88	3.50	щ	ပ
2-Methylheptane	4.500E-04	4.500E-04	2.000E-04	1.000E-04	1.000E-04	2.25	4.50	O	ပ
3-Ethylhexane	QN	QN	ON	1.000E-04	1.000E-04	2	Q	щ	ш
2,2-Dimethylheptane	Q	QN	QN	1.000E-04	1.000E-04	ON	QN	ட	u.
2,2,4-Trimethylhexane	1.000E-04	1.000E-04	2.000E-04	1.000E-04	1.000E-04	0.50	1.00	ш	۵
n-Octane	3.000E-04	3.000E-04	2.000E-04	1.000E-04	1.000E-04	1.50	3.00	۵	ပ
Ethylcyclohexane	QN	QN	QN	1.000E-04	1.000E-04	QN	QN	u.	ய
Ethylbenzene	6.500E-04	6.500E-04	5.000E-04	1.000E-04	1.000E-04	1.30	6.50	٥	В
m-Xylene & p-Xylene	2.850E-03	2.850E-03	2.500E-03	1.000E-04	1.000E-04	1.14	28.50	۵	A
Styrene	4.500E-04	4.500E-04	5.000E-04	1.000E-04	1.000E-04	06:0	4.50	ш	ပ
o-Xylene	1.050E-03	1.050E-03	9.000E-04	1.000E-04	1.000E-04	1.17	10.50	۵	∢
n-Nonane	1.500E-04	1.500E-04	QN	1.000E-04	1.000E-04	10.00	1.50	4	۵
i-Propylbenzene	Q	Q	QN	1.000E-04	1.000E-04	Q	2	щ	u.
n-Propylbenzene	2.500E-04	2.500E-04	2.000E-04	1.000E-04	1.000E-04	1.25	2.50	اه	0
p-Ethyltoluene	1.000E-03	1.000E-03	6.000E-04	1.000E-04	1.000E-04	1.67	10.00	ماد	∀ (
m-Ethyltoluene	3.500E-04	3.500E-04	2.000E-04	1.000E-04	1.000E-04	1.75	3.50	٥	٥
1,3,5-i nmetnylbenzene	4.500E-04	4.500E-04	3.000E-04	1.000E-04	1.000E-04	75	3.50		
O-Eu y ioinei le	3.500E-04	3:300-04	5.000E-04	1000	1000)	,
1,2,4-Trimethylbenzene & sec-Butylbenzene	1.150E-03	1.150E-03	8.000E-04	1.000E-04	1.000E-04	1.44	11.50	a	٨
n-Decane	2.000E-04	2.000E-04	1.000E-04	1.000E-04	1.000E-04	2.00	2.00	၁	ပ
alpha-Pinene	QN	QN	QN	1.000E-04	1.000E-04	S	QN	ட	ш
beta-Pinene	QN	QN	QN	1.000E-04	1.000E-04	Q	Q	L	ட
delta 3-Carene	ON	QN	QN	1.000E-04	1.000E-04	9	QN	Ł	ш
d-Limonene	QN	QN	QN	1.000E-04	1.000E-04	Ð	ND	ட	ட
MTBE	9.000E-04	9.000E-04	7.000E-04	1.000E-04	1.000E-04	1.29	9.00	۵	В
ETBE	Q	Q	QN	1.000E-04	1.000E-04	2	2	ш.	L
Dichlorodifluoromethane	1.482E-03	1.482E-03	1.130E-03	4.992E-04	4.992E-04	1.31	2.97	٥	O L
Methylchloride	Q	QN	ON	2.080E-04	2.080E-04	ON COL	ON N	L	L

TABLE A-5. AEC - VOC DATA EVALUATION FOR GREEN PARACHUTE SIGNAL FLARE TEST (31 MARCH 1998)

	Average	Average	Average Background •	Average Maximum Detection Limit -	Average Minimum Detection Limit -	Background	Minimum Detection Limit	Background	Minimum Detection Limit
Compound (a)	Concentration - Run 1, mg/m³	Concentration Run 1, mg/m ³	Concentration, mg/m³	Concentration, mg/m³	concentration, mg/m³	Evaluation Criteria	Evaluation Criteria	Evaluation Notes	Evaluation Notes
Dichlorotetrafluoroethane	QN	QN	ND	7.114E-04	7.114E-04	QN	QN	F	щ
Chloroethene	QN	QN	Q	2.621E-04	2.621E-04	QN	QN	Ъ	т
1,3-Butadiene	1.780E-03	1.780E-03	2.034E-04	2.246E-04	2.246E-04	8.75	7.92	В	В
Methylbromide	QN	Q	QN	3.952E-04	3.952E-04	QN	QN	ч	L.
Ethylchloride	ND	QN	ON	2.683E-04	2.683E-04	QN	Q	L	ц.
Trichloromonofluoromethane	2.576E-03	2.576E-03	2.533E-03	5.699E-04	5.699E-04	1.02	4.52	۵	ပ
Vinylidenechloride	DN	QN	ON	4.035E-04	4.035E-04	ON	QN	ட	Щ
Methylenechloride	5.547E-02	5.547E-02	8.068E-04	3.536E-04	3.536E-04	68.75	156.86	A	A
Allylchloride	ND	QN	Q	3.182E-04	3.182E-04	QN	QN	ш	ட
1,1,2-Trichloro-1,2,2-trifluoroethane	8.817E-04	8.817E-04	8.258E-04	7.821E-04	7.821E-04	1.07	1.13	۵	۵
1,1-Dichloroethane	ND	ND	Q	4.118E-04	4.118E-04	Q	Q	L.	ш
1,2-Dichloroethene	QN	QN	ON	4.035E-04	4.035E-04	ON	QN	ıL	L.
Chloroform	QN	QN	Q	4.950E-04	4.950E-04	QN	QN	F	u.
1,2-Dichloroethane	ND ND	Q	2	4.118E-04	4.118E-04	Q	Q	F	μ.
Methylchloroform	3.897E-04	3.897E-04	3.482E-04	5.533E-04	5.533E-04	1.12	0.70	۵	ш
Benzene	8.188E-03	8.188E-03	2.339E-03	3.245E-04	3.245E-04	3.50	25.23	O	A
Carbontetrachloride	8.360E-04	8.360E-04	7.072E-04	6.406E-04	6.406E-04	1.18	1.30	۵	۵
1.2-Dichloropropane	ND	QV	Q.	4.701E-04	4.701E-04	Q	Q	ட	ш.
Trichloroethylene	ND	Q	2	5.533E-04	5.533E-04	ND	QN	F	Т
cis 1,3-Dichloro-1-propene	ND	QN	QV	4.618E-04	4.618E-04	QN	QN	F	Ł
trans 1,3-Dichloro-1-propene	QN	QN	QN	4.618E-04	4.618E-04	QN	QN	F	L
1,1,2-Trichloroethane	ND	QN	QN	5.533E-04	5.533E-04	QN	ND	ட	Ŀ
Toluene	5.798E-03	5.798E-03	5.086E-03	3.827E-04	3.827E-04	1.14	15.15	D	A
1,2-Dibromoethane	QN	QN	QN	7.821E-04	7.821E-04	QN	QN	u.	ш
Perchloroethylene	QN	QN	QN	6.906E-04	6.906E-04	DN	ON	F	Ь
Chlorobenzene	ND	QN	QN	4.701E-04	4.701E-04	QN	QN	u.	L.
Ethylbenzene	9.979E-04	9.979E-04	7.676E-04	6.656E-04	6.656E-04	1.30	1.50	D	۵
m&p-Xylene	2.859E-03	2.859E-03	2.390E-03	4.410E-04	4.410E-04	1.20	6.48	O	В
Styrene	ND	QN	QN	4.326E-04	4.326E-04	QN	Q	ட	u.
1,1,2,2-Tetrachloroethane	ND	ON	QN	6.989E-04	6.989E-04	2	Q	ட	ш
o-Xylene	1.068E-03	1.068E-03	9.154E-04	4.410E-04	4.410E-04	1.17	2.42	۵	ပ
p-Ethyltoluene	5.413E-04	5.413E-04	4.433E-04	4.992E-04	4.992E-04	1.22	1.08	D	۵
1,3,5-Trimethylbenzene	3.447E-04	3.447E-04	2.679E-04	4.992E-04	4.992E-04	1.29	69.0	O	
1,2,4-Trimethylbenzene	1.097E-03	1.097E-03	8.531E-04	4.992E-04	4.992E-04	1.29	2.20	O	ပ
Benzylchloride	ND	QN	ON	5.283E-04	5.283E-04	QN	QN	ட	u.
m-Dichlorobenzene	QN	QN	2	6.115E-04	6.115E-04	ND	QN	.	T.
p-Dichlorobenzene	ND	QN	ON	6.115E-04	6.115E-04	ND	ON	Ь	ч
o-Dichlorobenzene	QN	QN	Q	6.115E-04	6.115E-04	ND	QN	L	Ч
1,2,4-Trichlorobenzene	QN	S	Q	7.530E-04	7.530E-04	QN	QN	F	L
Hexachlorobutadiene	QN	QN	QN	1.086E-03	1.086E-03	ND	QN	Ŧ	L
Phenylacetylene	ND	QN	QN	4.243E-04	4.243E-04	ND	ON	tı.	ш
Indane	ND	_ ON	QN	4.909E-04	4.909E-04	ND	Q	ш	ட
2,3-Dihydro-1-methyl-1H-indene	ND	QN	QN	5.491E-04	5.491E-04	Q	Q	ш	L

TABLE A-5. AEC - VOC DATA EVALUATION FOR GREEN PARACHUTE SIGNAL FLARE TEST (31 MARCH 1998)

	Average	Average	Average Background -	Average Maximum Detection Limit -	Average Minimum Detection Limit -	Background	Minimum Detection Limit	Background	Minimum Detection Limit
Compound (a)	Run 1, mg/m³	Run 1, mg/m³	mg/m³	mg/m³	mg/m³	Criteria	Criteria	Notes	Notes
2.3-Dihydro-4-methyl-1H-indene	QN	QN	QN	5.491E-04	5.491E-04	QN	QN	u.	Щ
Naphthalene	1.276E-03	1.276E-03	4.078E-04	5.325E-04	5.325E-04	3.13	2.40	၁	ပ
2-Methylnaphthalene	Q	QV	QN	5.907E-04	5.907E-04	ND	QN	ш	Ь
1-Methylnaphthalene	Q.	QN	QN	5.907E-04	5.907E-04	S	Q	Ŧ	ш
Cyanogen	Q	Q	QN	2.163E-04	2.163E-04	ND	QN	4	F
Methylnitrite	3.948E-04	3.948E-04	QN	2.538E-04	2.538E-04	10.00	1.56	A	D
Acetonitrile	5.775E-04	5.775E-04	QN	1.706E-04	1.706E-04	10.00	3.39	4	ပ
Acrylonitrile	5.531E-04	5.531E-04	QN	2.205E-04	2.205E-04	10.00	2.51	∢	O
Nitromethane	1.328E-03	1.328E-03	QN	2.538E-04	2.538E-04	10.00	5.24	¥	8
Propanenitrile	QN	QN	QN	2.288E-04	2.288E-04	ND	ON	٤	Ŧ
2-Methylpropanenitrile	QV	QN	QN	2.870E-04	2.870E-04	QN	ON	±	Ŀ
Pentanenitrile	QN	QN	QN	3.453E-04	3.453E-04	QN	ON	ш	F
Hexanenitrile	ON	an	QN	4.035E-04	4.035E-04	ON	ON	Ŧ	Ь
Benzonitrile	5.671E-04	5.671E-04	QN	4.285E-04	4.285E-04	10.00	1.32	¥	Q
2-Nitrophenol	ON	QN	QN	5.782E-04	5.782E-04	QN	ON	ட	ıŁ
Acrolein	4.793E-04	4.793E-04	QN	2.330E-04	2.330E-04	10.00	2.06	¥	ပ
Acetone	1.064E-02	1.064E-02	7.510E-03	2.330E-04	2.330E-04	1.42	45.67	۵	¥
1-Hydroxy-2-propanone	ND	ON	QN	3.078E-04	3.078E-04	QN	QV	ււ	щ
Furan	3.231E-04	3.231E-04	QN	2.829E-04	2.829E-04	10.00	1.14	A	۵
2-Propanol	Q	QV	QN	2.496E-04	2.496E-04	Q	QN	ıŁ	ட
2-Methyipropanal	ON	ON	QN	3.078E-04	3.078E-04	Q	Q	ட	ட
1-Propanol	Q	Q	Q	2.496E-04	2.496E-04	Q	Q	L	ட
Methacrolein	ON	QN	QN	2.912E-04	2.912E-04	Q	Q	ш	tr.
Methyl-vinyl Ketone	ND	ON	ND	2.912E-04	2.912E-04	Q	Q	L.	Щ
MTBE	1.008E-03	1.008E-03	9.140E-04	3.661E-04	3.661E-04	1.10	2.75	۵	ပ
2,3-Butanedione	Q	Q	Q	3.578E-04	3.578E-04	QN	S	ட	ட
Butanal	4.578E-04	4.578E-04	3.905E-04	2.995E-04	2.995E-04	1.17	1.53	٥	٥
2-Butanone	1.902E-03	1.902E-03	9.694E-04	2.995E-04	2.995E-04	1.96	6.35	۵	В
2-Methyl-1,3-dioxolane	QN	QN	QN	3.661E-04	3.661E-04	Q	Q	Щ	ш
2-Methylfuran	2	QN !	9	3.411E-04	3.411E-04	QN.	Q	<u>.</u>	L I
Tetrahydrofuran	ON	QN	9	2.995E-04	2.995E-04	QN	Q	ш	u.
trans-2-Butenal	1.774E-04	1.774E-04	Q	2.912E-04	2.912E-04	10.00	0.61	٧	ш
Acetic Acid	2.194E-03	2.194E-03	1.131E-03	2.496E-04	2.496E-04	1.94	8.79	٥	В
1-Butanol	ON	QN	Q	3.078E-04	3.078E-04	QN	QN	ш	ட
2-Pentanone	6.079E-04	6.079E-04	QN	3.578E-04	3.578E-04	10.00	1.70	٧	۵
Pentanal	1.427E-03	1.427E-03	1.187E-03	3.578E-04	3.578E-04	1.20	3.99	۵	ပ
1,4-Dioxane	ND	ND	ND	3.661E-04	3.661E-04	QN	QN	т	F
Methyl Methacrylate	ND	ON	ND	4.160E-04	4.160E-04	QN	QN	E E	F
Cyclopentanone	4.337E-04	4.337E-04	QN	3.494E-04	3.494E-04	10.00	1.24	٧	O
Hexanal	7.876E-04	7.876E-04	7.147E-04	4 160E-04	4.160E-04	1.10	1.89	0	O
2-Furaldehyde	3.859E-04	3.859E-04	QN	3.994E-04	3.994E-04	10.00	0.97	V	ч
Cyclohexanone	ON	QN	QN	4.077E-04	4.077E-04	QN	QN	ш	T.
Heptanal	6.667E-04	6.667E-04	5.849E-04	4.742E-04	4.742E-04	1.14	1.41	٥	D

TABLE A-5. AEC - VOC DATA EVALUATION FOR GREEN PARACHUTE SIGNAL FLARE TEST (31 MARCH 1998)

Compound (a)	Average Concentration - Run 1, mg/m³	Average Concentration - Run 1, mg/m³	Average Background - Concentration, mg/m³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit : Concentration, mg/m³	Background Evaluation Criteria	Minimum Detection Limit Evaluation Criteria	Background Evaluation Notes	Minimum Detection Limit Evaluation Notes
2-Butoxyethanol	QN	QN	ND	4.909E-04	4.909E-04	NO	QN	Ŀ	Ł
Benzaldehyde	1.651E-03	1.651E-03	7.646E-04	4.410E-04	4.410E-04	2.16	3.74	ပ	O
6-Methyl-5-hepten-2-one	QN	QN	9.693E-04	5.242E-04	5.242E-04	Ð	Q	u.	L
Octanal	1.515E-03	1.515E-03	9.075E-04	5.325E-04	5.325E-04	1.67	2.85	٥	O
Benzofuran	QN	QN	QN	4.909E-04	4.909E-04	Q	Q	ய	ц.
2-Ethyl-1-hexanol	QN	QN	QN	4.992E-04	4.992E-04	QN	QN	ய	ш.
Acetophonone	3.137E-04	3.137E-04	QN	4.992E-04	4.992E-04	10.00	0.63	۷	ц.
Nonanal	2.434E-03	2.434E-03	1.344E-03	5.907E-04	5.907E-04	1.81	4.12	Q	ပ
Decanal	2.660E-03	2.660E-03	1.007E-03	6.490E-04	6.490E-04	2.64	4.10	ပ	ပ
Carbonyl Sulfide	2.988E-04	2.988E-04	1.869E-04	2.496E-04	2.496E-04	1.60	1.20	Ο	O
Carbon Disulfide	9.840E-03	9.840E-03	5.277E-04	3.162E-04	3.162E-04	18.65	31.12	∢	A
Thiophene	3.457E-04	3.457E-04	QN	3.494E-04	3.494E-04	10.00	0.99	¥	ш.
Dimethyldisulfide	QN	QN	QN	3.910E-04	3.910E-04	ND	QN	L.	L.

Compounds in bold represent duplicate values.

TABLE A-6. AEC - VOC RUN NO. 1 DATA FOR GREEN PARACHUTE SIGNAL FLARE TEST (31 MARCH 1998)

		Average	Average	Background -	Background Corrected	Dilution	Corrected		Sample Total		Corrected Emission
Compound (a)	Molecular Weight	Concentration - Run 1, ppbv	Concentration - Run 1, mg/m³	Concentration, mg/m³	Concentration - Run 1, mg/m³	Correction Factor (b), %	Concentration - Run 1, mg/m³	Initial Plume Volume, ft³	Materiai - Run 1, Ib	Number of Items	Factor - Run 1, Ib/Item
OURINT)							-				
TNMHC			1.380E-01	6.070E-02	7.725E-02	0.9429	8.193E-02	34,209	1.750E-04	-	1.750E-04
COOK of the control o											
Voiatile Organic Compounds (VOCS)	ŝ		1000	20 1000	0 4007	00700	20000	24 200	7 004 5 06	-	7 001E.06
Ethane	98	4.000	5.000E-03	1.900E-03	3.100E-03	0.9429	3.200E-U3	34 209	5 719F-05	- -	5 719F-05
Erryjene	96	12 851	1.390F-02	2 800F-03	1 110F-02	0.9429	1.177E-02	34.209	2.514E-05	-	2.514E-05
Processe	44	1038	1 900F-03	1 400F-03	5 000F-04	0.9429	5.303E-04	34.209	1.132E-06	-	1.132E-06
Propere	42	4.378	7.650E-03	7,000E-04	6.950E-03	0.9429	7.371E-03	34,209	1.574E-05	-	1.574E-05
i-Butane	58	0.166	4.000E-04	4.000E-04	0.000E+00	0.9429	QN	34,209	QN	1	QN
i-Butene	56	0.408	9.500E-04	4.000E-04	5.500E-04	0.9429	5.833E-04	34,209	1.246E-06	1	1.246E-06
1-Butene	56	1.009	2.350E-03	2.000E-04	2.150E-03	0.9429	2.280E-03	34,209	4.870E-06	1	4.870E-06
1,3-Butadiene	54	0.779	1.750E-03	2.000E-04	1.550E-03	0.9429	1.644E-03	34,209	3.511E-06		3.511E-06
n-Butane	58	0.518	1.250E-03	1.100E-03	1.500E-04	0.9429	1.591E-04	34,209	3.397E-07	-	3.397E-07
trans-2-Butene	56	0.472	1.100E-03	3.000E-04	8.000E-04	0.9429	8.484E-04	34,209	1.812E-06	-	1.812E-06
2,2-Dimethylpropane	72	QN	Q	Q	Q	0.9429	ON	34 209	ON I	_	ON I
cis-2-Butene	56	0.129	3.000E-04	1.000E-04	2.000E-04	0.9429	2.121E-04	34,209	4.530E-07	-	4.530E-07
3-Methyt-1-butene	70	0.034	1.000E-04	ON SS 1888	1.000E-04	0.9429	1.067E-04	34.209	2.265E-U/	-	Z.Z65E-07
i-Pentane	72	0.501	1.500E-03	1.600E-03	-1.000E-04	0.9429	ON LOS	34,209	ON O	-	NO SOL
1-Pentene	0/	0.137	4.000E-04	2	4.000E-04	0.9429	4.242E-04	502,450	9.000E-07	- -	9.000 E-07
2-Methyl-1-butene	0 5	0.052	1.500E-04	ON 1009 1	1.500E-04	0.9429	1.391E-04	24,203	3.397E-07	-	1 1325.07
n-renane	7/	0.331	1,000 100	1.000E-03	3,000 -03	0.3423	NO NO	34 200	NO NO	-	NO CA
trans. 2. Dontons	8 5	0.033	2 000 -04	TON CA	2 000E-04	0.3429	2 121E-04	34 209	4 530F-07	-	4 530E-07
Cis. 2. Pantana	2 5	690.0	2.000E-04	2 5	2 000E-04	0.9429	2.121F-04	34 209	4.530E-07	-	4.530E-07
2-Methyl-2-butene	70	0.034	1.000E-04	2	1.000E-04	0.9429	1.061E-04	34,209	2.265E-07	-	2.265E-07
2,2-Dimethylbutane	98	0.056	2.000E-04	6.000E-04	-4.000E-04	0.9429	Q	34,209	QN	1	QN
Cyclopentene	89	QV	Q	QV	QV	0.9429	QN	34,209	ND	1	ON
4-Methyl-1-pentene	84	QN	QN	QN	QN	0.9429	QN	34,209	QN	1	ON
Cyclopentane	70	QN	Q	1.000E-04	Q	0.9429	Q	34,209	QN	_	2
2,3-Dimethylbutane	86	0.182	6.500E-04	5.000E-04	1.500E-04	0.9429	1.591E-04	34,209	3.397E-07	_	3.397E-07
cis-4-Methyl-2-pentene	84	QN S	ND 4 400E 03	ON SO	ND E SOOF S	0.9429	2 2	34,209	2 2	-	2 2
2-Methylperitaire	88	0.084	3.000E-04	1.000E-03	-7.000E-04	0.9429	28	34,209	2	-	2
2-Methyl-1-pentene	84	QN	QN	QN	ON	0.9429	QN	34,209	QV	-	QN
1-Hexene	84	0.100	3.500E-04	QN	3.500E-04	0.9429	3.712E-04	34,209	7.927E-07	-	7.927E-07
n-Hexane	98	0.419	1.500E-03	1.600E-03	-1.000E-04	0.9429	Q	34,209	Q	-	2
trans-2-Hexene	84	0.029	1.000E-04	2	1.000E-04	0.9429	1.061E-04	34,209	2.265E-07		2.265E-07
2-Methyl-2-pentene	84	0.029	1.000E-04	ON S	1.000E-04	0.9429	1.061E-04	34,209	2.265E-07	- ,	2.265E-07
Votto de contraction	5 6	0.023	1.000 n	2000	-000-04 -000-05	0.9429	ON CIN	24 200	ND ND	-	ND
Menylcycopenane	\$ 5	0.264	1 1000-04	1000E-04	1.000E-03	0.9429	1 061E-04	202.25	2 265E-07	-	2 265E-07
Benzene	3 8	2.481	R 050E-03	2 300E-03	5.750E-03	0.9429	6.098E-03	34 209	1.302E-05	-	1.302E-05
Cyclohexane	84	0.143	5.000E-04	6.000E-04	-1.000E-04	0.9429	QN	34.209	Ð	_	2
2-Methylhexane	18	0.180	7.500E-04	7.000E-04	5.000E-05	0.9429	5.303E-05	34,209	1.132E-07	-	1.132E-07
2,3-Dimethylpentane	100	0.517	2.150E-03	2.100E-03	5.000E-05	0.9429	5.303E-05	34,209	1.132E-07	-	1.132E-07
3-Methylhexane	100	0.180	7.500E-04	1.000E-03	-2.500E-04	0.9429	QN	34,209	Q	-	2
2,2,4-Trimethylpentane	114	0.865	4.100E-03	4.200E-03	-1.000E-04	0.9429	Ð	34,209	2	-	9

TABLE A-6. AEC - VOC RUN NO. 1 DATA FOR GREEN PARACHUTE SIGNAL FLARE TEST (31 MARCH 1998)

					Background						Corrected
		Average	Average	Background -	Corrected	Dilution	Corrected	100 100	Sample Total	2001.00	Emission
Compound (a)	Molecular	Concentration - Run 1, poby	Run 1. ma/m³	Concentration, ma/m³	Sun 1. mo/m³	Correction Factor (b). %	Run 1. ma/m³	Volume, ft?	Material - Hun	Number of	Factor - Run 1. Ib/Item
n-Heptane	1 00	0.168	7.000E-04	7.000E-04	0.000E+00	0.9429	QN	34.209	QN	1	QN
2,4,4-Trimethyl-1-pentene	112	QN	QN	QV	QN	0.9429	Q	34,209	Q	1	QV
Methylcyclohexane	86	0.110	4.500E-04	5.000E-04	-5.000E-05	0.9429	Ð	34,209	Ð		Q
2,4,4-Trimethyl-2-pentene	112	QN	QN	ON	Q	0.9429	QN	34,209	QN	1	QN
2,5-Dimethylhexane	114	0.074	3.500E-04	4.000E-04	-5.000E-05	0.9429	QN	34,209	QN	1	QN
2,4-Dimethylhexane	114	0.105	5.000E-04	5.000E-04	0.000E+00	0.9429	Q	34,209	2	-	Q.
2,3,4-Trimethylpentane	114	0.211	1.000E-03	1.000E-03	0.000E+00	0.9429	Ñ	34,209	N D	-	Q
Toluene	92	1.489	5.700E-03	5.000E-03	7.000E-04	0.9429	7.424E-04	34,209	1.585E-06	1	1.585E-06
2,3-Dimethylhexane	114	0.074	3.500E-04	4.000E-04	-5.000E-05	0.9429	QN	34,209	ON	1	QN
2-Methylheptane	111	0.097	4.500E-04	2.000E-04	2.500E-04	0.9429	2.651E-04	34,209	5.662E-07	1	5.662E-07
3-Ethylhexane	114	2	Q	ND	QN	0.9429	QN	34,209	QN	1	QN
2,2-Dimethylheptane	128	2	QV	Q	Q	0.9429	Q	34,209	Ð	ļ	Q
2,2,4-Trimethylhexane	128	0.019	1.000E-04	2.000 E -04	-1.000E-04	0.9429	Q	34,209	Q	1	Q
n-Octane	114	0.063	3.000E-04	2.000E-04	1.000E-04	0.9429	1.061E-04	34,209	2.265E-07	-	2.265E-07
Ethylcyclohexane	112	QN	QV	Q	QV	0.9429	Q	34,209	Q	1	Ñ
Ethylbenzene	9	0.098	6.500E-04	5.000E-04	1.500E-04	0.9429	1.591E-04	34,209	3.397E-07	1	3.397E-07
m-Xylene & p-Xylene	98	0.646	2.850E-03	2.500E-03	3.500E-04	0.9429	3.712E-04	34,209	7.927E-07	-	7.927E-07
Styrene	ই	0.104	4.500E-04	5.000E-04	-5.000E-05	0.9429	Q	34,209	Q	1	ON
o-Xylene	106	0.238	1.050E-03	9.000E-04	1.500E-04	0.9429	1.591E-04	34,209	3.397E-07	1	3.397E-07
n-Nonane	128	0.028	1.500E-04	2	1.500E-04	0.9429	1.591E-04	34,209	3.397E-07	1	3.397E-07
i-Propylbenzene	120	9	QV	Q	QN	0.9429	Q	34,209	QN	1	Q
n-Propylbenzene	120	0.050	2.500E-04	2.000E-04	5.000E-05	0.9429	5.303E-05	34,209	1.132E-07	1	1.132E-07
p-Ethyltoluene	120	0.200	1.000E-03	6.000E-04	4.000E-04	0.9429	4.242E-04	34,209	9.060E-07	1	9.060E-07
m-Ethyltoluene	120	0.070	3.500E-04	2.000E-04	1.500E-04	0.9429	1.591E-04	34,209	3.397E-07	-	3.397E-07
1,3,5-Trimethylbenzene	120	0.090	4.500E-04	3.000E-04	1.500E-04	0.9429	1.591E-04	34,209	3.397E-07	1	3.397E-07
o-Ethyltoluene	120	0.070	3.500E-04	2.000E-04	1.500E-04	0.9429	1.591E-04	34,209	3.397E-07	-	3.397E-07
1,2,4-Trimethylbenzene & sec-Butylbenzene	120	0.230	1.150E-03	8.000E-04	3.500E-04	0.9429	3.712E-04	34.209	7.927E-07	-	7 927E-07
n-Decane	142	0.034	2 000F-04	1 000F-04	1 000E-04	0 0 4 2 0	1 0615.04	24 200	2 265E-07	-	2 265 0 07
alpha-Pinene	136	QN	QN	QN	CN	0.9429	CN	34 209	NO	-	ND CN
beta-Pinene	136	QN	Q	QN	2	0.9429	Q	34.209	2	-	S
delta 3-Carene	136	QN	S	Q	Q	0.9429	Q	34,209	QN	-	Q.
d-Limonene	136	QN	ON	ON	QN	0.9429	QN	34,209	QN	+	S
MIBE	88	0.246	9.000E-04	7.000E-04	2.000E-04	0.9429	2.121E-04	34,209	4.530E-07	-	4.530E-07
E I ISE Dicklorodiffi oromotheso	102	ON CO	ON SOL	ON S	QN	0.9429	QN	34,209	Q	-	2
Mathychloride	2 2	OIA NID	1.4025-03	1.1305-03	3.521E-04	0.9429	3.735E-04	34,209	/.9/6E-0/	-	7.976E-07
Dichlorotetrafluoroethane	3 2	2 2	2 5		2 2	0.9429	22	34,209	2 2	-	2 5
Chloroethene	63	2	2	2 5	2 5	0.3423	2 5	34 200	2 2		2 2
1,3-Butadiene	25	0.792	1 780F-03	2 034F-04	1 577F-03	0.9429	1 672F-03	34 209	3 571E.06	-	3 571E.08
Methylbromide	95	2	2	QN.	Q	0.9429	ON ON	34.209	ON ON	-	ND ON
Ethylchloride	64.5	QN	2	Q	2	0.9429	Q	34,209	2	-	2
Trichloromonofluoromethane	137	0.452	2.576E-03	2.533E-03	4.241E-05	0.9429	4.498E-05	34,209	9.606E-08	-	9.606E-08
Vinylidenechloride	97	Q	ON	ON	QN	0.9429	QN	34,209	Q	-	S
Methylenechloride	85	15.686	5.547E-02	8.068E-04	5.466E-02	0.9429	5.797E-02	34,209	1.238E-04	1	1.238E-04
Allylchlonde	76.5	Q	Q	Q	ð	0.9429	ΝĎ	34,209	QN	1	QN
1,1,2-1 richloro-1,2,2-trilluoroethane	2 S	0.113	8.817E-04	8.258E-04	5.588E-05	0.9429	5.927E-05	34,209	1.266E-07	-	1.266E-07
1.2-Dichlomethene	66	2 2	2 2	2	2	0.9429	2 9	34,209	2	-	2
Chloroform	119	2 2	2 2	2 2	2 2	0.9429	2 5	34,209	22	-	9
			T.	J	חוי	V.3423	ָֿבַ בַּי	24,203	Z.	-	JN.

TABLE A-6. AEC - VOC RUN NO. 1 DATA FOR GREEN PARACHUTE SIGNAL FLARE TEST (31 MARCH 1998)

	Molecular	Average Concentration -	Average Concentration -	Background - Concentration,	Background Corrected Concentration -	Dilution Correction	Corrected Concentration -	Initial Plume	Sample Total Material - Run	Number of	Corrected Emission Factor - Run
Compound (a)	Weight	Run 1, ppbv	Run 1, mg/m³	mg/m	Run 1, mg/m³	Factor (b), %	Run 1, mg/m²	Volume, ft	1, lb	Items	1, lb/item
1,2-Dichloroethane	66	Q	ON	QN	QN	0.9429	Q.	34,209	QN S	_ ,	ON COL
Methylchloroform	133	0.070	3.897E-04	3.482E-04	4.150E-05	0.9429	4.401E-05	34,209	8.400E-08	- -	9.4000-00
Benzene	78	2.523	8.188E-03	2.339E-03	5.848E-03	0.9429	6.203E-03	34,209	1.3235-03	-	2 918E-07
Carbontetrachloride	154	0.130	8.360E-04	7.072E-04	1.2882-04	0.9429	1.300E-04	34,509	4.3 IOE-0/	-	
1,2-Dichloropropane	113	Q	Q.	2	2 5	0.9429		34,209	2 2	-	
Trichloroethylene	133	Q	2	QN	2	0.9429	2 2	50V-15	2 2	- -	2 2
cis 1,3-Dichloro-1-propene	111	Q	Q	QN.	2	0.9429	2 2	24,203	2 2	-	2 2
trans 1,3-Dichloro-1-propene	111	Q	Q	Q.	ON S	0.9429	2	34,209	2 2	-	2 2
1,1,2-Trichloroethane	133	Q	Q	Q	Q	0.9429	ON L	34,209	NO. 100	- -	NO 16191
Toluene	92	1.515	5.798E-03	5.086E-03	7.120E-04	0.9429	7.551E-04	34,209	1.613E-06		1.613E-06
1,2-Dibromoethane	188	QV	QN	Q	Q	0.9429	2	34,209	Q.	- ,	2 2
Perchloroethylene	166	QN	Q	2	2	0.9429	9	34,209	2 2	- -	2 2
Chlorobenzene	113	Q	QN	Q	Q	0.9429	ON S	34,209	ON LO	_ .	S 246 F 07
Ethylbenzene	160	0.150	9.979E-04	7.676E-04	2.303E-04	0.9429	2.442E-04	34,209	5.216E-0/	- .	3.210E-U/
m&p-Xylene	106	0.648	2.859E-03	2.390E-03	4.685E-04	0.9429	4.969E-04	34,203	1.001E-00	- -	0.001
Styrene	20	Q	Q.	ON.	2	0.9429	2	34,209	ON CO	- -	2 2
1,1,2,2-Tetrachloroethane	168	Q	QN	Q	QN	0.9429	ON .	34,209	ON C	- ,	ON 0
o-Xylene	106	0.242	1.068E-03	9.154E-04	1.526E-04	0.9429	1.618E-04	34,209	3.456E-07	_	3.456E-07
p-Ethyltoluene	120	0.108	5.413E-04	4.433E-04	9.799E-05	0.9429	1.039E-04	34,209	2.219E-07		2.219E-07
1,3,5-Trimethylbenzene	120	0.069	3.447E-04	2.679E-04	7.689E-05	0.9429	8.154E-05	34,209	1./42E-U/	-	1./425-0/
1,2,4-Trimethylbenzene	120	0.220	1.097E-03	8.531E-04	2.437E-04	0.9429	2.584E-04	34,209	5.519E-0/	_ ,	5.519E-07
Benzylchloride	127	Q	QN	Q	QN	0.9429	2	34,209	2		2 2
m-Dichlorobenzene	147	QN	Q	2	Q	0.9429	ON.	34,209	ON S	- -	2 2
p-Dichlorobenzene	147	Q	QN	2	QV.	0.9429	ON S	34,209	2 9	- ,	2 5
o-Dichlarobenzene	147	QN	Q	Q	Q	0.9429	2	34,209		- -	2 2
1,2,4-Trichlorobenzene	181	Q	9	Q.	ON	0.9429	2	34,209		- -	2 2
Hexachlorobutadiene	261	Q	Q :	Q.	QN S	0.9429		24,203	2 2	-	2 2
Phenylacetylene	102	2	QN .	2	Q.	0.9429	2	94,409	2 2		2 2
Indane	118	Q	Q !	ON.		0.9429	2 2	20,40	2 2	- ,	2 2
2,3-Dihydro-1-methyl-1H-indene	132	Q.	2		2	0.9429	2 2	34,209	2 2	- -	2 2
2,3-Dihydro-4-methyl-1H-indene	132	ON	ON POST	NO 4 678 54	NO SOED OF	0.9429	0 2115.04	34 209	1 9675-06	-	1 967E-06
Naphthalene	120	0.240	1.2/UE-US	*.07.0E-04	0.000E	0.0420	ON	34 209	CN		CN
Z-metnyinaphinalene	142	2 2	2 2	2 2	2 2	0.9429	Q.	34 209	2	-	2
Cypopop	52	S CN	S	CZ	QN	0.9429	Q	34 209	Q	-	QN
Methyloitite	19	0.156	3.948E-04	2	3.948E-04	0.9429	4.187E-04	34,209	8.941E-07	-	8.941E-07
Acetonitrile	14	0.339	5.775E-04	Q.	5.775E-04	0.9429	6.125E-04	34,209	1.308E-06	1	1.308E-06
Acrylonitrile	53	0.251	5.531E-04	S	5.531E-04	0.9429	5.866E-04	34,209	1.253E-06	-	1.253E-06
Nitromethane	61	0.524	1.328E-03	QN	1.328E-03	0.9429	1.409E-03	34,209	3.009E-06	-	3.009E-06
Propanenitrile	55	QN	QN	ON	Q	0.9429	QN	34,209	QN	-	2
2-Methylpropanenitrile	69	QN	QN	ON	QN	0.9429	QN	34,209	2	-	2
Pentanenitrile	83	QN	QN	ON	9	0.9429	QV	34,209	Q	-	2
Hexanenitrile	- 6	QN	ON	QN	QN	0.9429	QN	34,209	Q	_	Q
Benzonitrile	103	0.132	5.671E-04	QN	5.671E-04	0.9429	6.015E-04	34,209	1.285E-06	-	1.285E-06
2-Nitrophenol	139	QN	QN	QN	QN	0.9429	Q	34,209	Q	-	2
Acrolein	56	0.206	4.793E-04	QN	4.793E-04	0.9429	5.083E-04	34,209	1.086E-06		1.086E-06
Acetone	26	4.567	1.064E-02	7.510E-03	3.128E-03	0.9429	3.318E-03	34,209	7.085E-06		7.085E-06
1-Hydroxy-2-propanone	74	Q	QV	9	Q	0.9429	ON S	34,209	ON COL	- ,	ON POLICE
Furan	88	0.114	3.231E-04	Q	3.231E-04	0.9429	3.427E-04	34,209	7.318E-U/	- -	/.318E-U/
2-Propanol	09	QN	QN	QN	2	0.9429	Q.	\$4,2US	Z	_	JN.

TABLE A-6. AEC - VOC RUN NO. 1 DATA FOR GREEN PARACHUTE SIGNAL FLARE TEST (31 MARCH 1998)

Compound (a) Wolecular (Concentration) Concentration (Concentration) ND	Average Concentration - Run 1, mg/m² ND ND ND ND ND	Corrected				難になる こうくく アイ・アイ・アイ・アイ・アイ・アイ・アイ・アイ・アイ・アイ・アイ・アイ・アイ・ア	
Motocular	Run 1, mg/m² ND ND ND	Concentration	٤	- Initial Dirma	Sample Total	Manhoran	Emission
74	QN QN		Factor (b), % Run 1, mg/m³		Material - Muli	ltems of	1, lb/item
60 ND		╁	Ł	╀	QN	1	Q
70				34,209	Q	-	Q
70		QN	0.9429 ND	34,209	QN	1	QN
88 0.275 1,008E-03 86 ND ND 72 0,635 1,578E-04 72 0,635 1,902E-03 88 ND ND 82 ND ND 72 ND ND 73 0,061 1,774E-04 70 0,061 1,774E-04 70 0,061 1,774E-04 86 0,170 6079E-03 86 0,170 6079E-04 100 0,189 7,876E-04 100 0,189 7,876E-04 114 0,141 607E-04 118 ND ND 118 ND ND 120 ND ND 120 ND ND		QN	0.9429 ND	34,209	QN	1	QN
He ND ND 72	38E-03	9.359E-05	0.9429 9.926E-05	34,209	2.120E-07	1	2.120E-07
72 0.153 4.578E-04 72 0.635 1.902E-03 88 ND ND ND 72 ND ND ND 72 ND ND ND ND 100 0.879 2.194E-03 86 0.170 6.079E-04 86 0.170 6.079E-04 86 0.1399 1.427E-03 86 0.039 1.427E-03 86 0.039 1.427E-03 86 0.039 1.427E-03 86 0.039 1.427E-03 87 ND ND ND ND ND ND 100 0.189 7.876E-04 100 0.037 3.859E-04 98 ND ND ND 118 ND 120 0.063 3.137E-04 142 0.412 2.660E-03 156 0.410 2.660E-03 157 0.120 2.988E-04 160 0.120 2.988E-04	_	QN	0.9429 ND	34,209	QN	1	QN
72 0.635 1.302E-03 88 ND ND ND ND ND 72 ND 72 ND N			0.9429 7.140E-05	34,209	1.525E-07	1	1.525E-07
88		9.327E-04	0.9429 9.892E-04	34,209	2.112E-06	1	2.112E-06
ND				34,209	QN	1	ND
72 ND ND ND ND ND ND ND 0.061 1.774E-04 60 0.0879 2.194E-03 ND		QN	0.9429 ND	34,209	QN	-	ND
70 0.061 1.774E-04 60 0.879 2.194E-03 74 ND ND ND 86 0.170 6.079E-04 86 0.1399 1.427E-03 88 ND ND ND 100 0.189 7.87E-04 100 0.189 7.87E-04 114 0.141 6.667E-04 118 ND ND 120 0.063 3.137E-04 142 0.412 2.434E-03 156 0.410 2.988E-04 60 0.120 2.988E-04 60 0.120 2.988E-04			0.9429 ND	34,209	QN	1	Q
60 0.879 2.194E-03 74 ND ND 86 0.170 6.079E-04 86 0.399 1.427E-03 88 ND ND 100 0.189 7.87E-04 100 0.189 7.87E-04 100 0.189 7.87E-04 96 0.097 3.859E-04 96 0.097 3.859E-04 114 0.141 6.65E-04 116 ND ND 126 ND ND 126 ND ND 127 0.374 1.651E-03 118 ND ND 120 ND 120 0.063 3.17E-04 142 0.0412 2.434E-03 156 0.410 2.560E-03 16 0.0410 2.986E-04 17 0.0412 2.434E-03 17 0.0412 2.434E-03 17 0.063 3.112 9.980E-04	74E-04	1.774E-04	0.9429 1.881E-04	34,209	4.018E-07	1	4.018E-07
74	94E-03	1.063E-03	0.9429 1.127E-03	34,209	2.407E-06	1	2.407E-06
86 0.170 6.079E-04 86 0.399 1.427E-03 88 ND ND ND 100 ND ND ND 100 0.184 4.337E-04 96 0.097 3.859E-04 98 ND ND ND 114 0.141 6.67E-04 118 ND ND ND 126 0.374 1.651E-03 126 ND ND ND 120 0.063 3.137E-04 142 0.412 2.660E-03 156 0.410 2.660E-03 156 0.410 2.660E-03 176 3.112 9.840E-04				34,209	QN	1	QN
86 0.399 1.427E-03 88	79E-04	6.079E-04		34,209	1.377E-06	1	1.377E-06
88 ND ND ND 100 124 4.337E-04 84 0.124 4.337E-04 100 0.189 7.87EE-04 96 0.097 3.859E-04 98 ND ND ND 118 ND ND ND 126 ND ND ND 126 ND ND ND 120 ND ND 120 ND ND ND 120 ND ND ND 120 ND ND 120 ND ND ND 120 ND ND ND 120 ND ND 120 ND ND ND 120 ND ND ND 120 ND ND 120 ND ND ND 120 ND ND ND 120 ND ND 120 ND ND ND 120 ND ND ND 120 ND ND 120 ND ND ND 120 ND ND ND 120 ND ND 120 ND ND ND ND ND 120 ND ND	27E-03	2.404E-04	0.9429 2.550E-04	34,209	5.446E-07	1	5.446E-07
100 ND			0.9429 ND	34,209	QN	1	ND
84 0.124 4.337E.04 100 0.189 7.876E.04 98 0.097 3.859E.04 98 ND ND ND 114 0.141 6.667E.04 118 ND ND ND 128 0.285 1.515E.03 128 0.285 1.515E.03 120 ND ND ND 120 120 ND ND 120 0.63 3.137E.04 142 0.412 2.666E.03 156 0.410 2.666E.03 0.120 2.988E.04 0.120 2.988E.04 0.120 0				34,209	QN	1	ND
100 0.189 7.876E-04 96 0.097 3.859E-04 98 ND ND 114 0.141 6.667E-04 118 ND ND 126 ND ND 128 0.285 1.515E-03 118 ND ND 120 0.063 3.137E-04 146 0.412 2.454E-03 156 0.410 2.660E-03 160 0.120 2.398E-04			0.9429 4.600E-04	34,209	9.824E-07	1	9.824E-07
96 0.097 3.859E-04 98 ND ND ND 114 0.141 6.67E-04 118 ND ND 126 ND ND 126 0.285 1.515E-03 120 ND ND 120 0.063 3.137E-04 142 0.412 2.434E-03 156 0.410 2.560E-03 16 0.0120 2.988E-04 17 0.120 0.120 2.988E-04			0.9429 7.726E-05	34,209	1.650E-07	1	1.650E-07
98 ND ND 114 0.141 6.667E-04 118 ND ND 126 0.285 1.515E-03 128 0.285 1.515E-03 120 ND ND 120 ND ND 120 0.063 3.137E-04 142 0.412 2.434E-03 156 0.410 2.660E-03 160 0.120 2.398E-04 176 3.112 9.840E-03		3.859E-04	0.9429 4.093E-04	34,209	8.741E-07	1	8.741E-07
114 0.141 6.667E-04 118 ND ND 106 0.374 1.651E-03 128 0.285 1.515E-03 120 ND ND 120 ND ND 120 0.063 3.137E-04 126 0.410 2.660E-03 156 0.410 2.660E-03 160 0.120 2.368E-04 176 3.112 9.840E-03			0.9429 ND	34,209	QN	1	ΩΩ
118 ND ND 106 0.374 1.651E-03 128 0.285 1.515E-03 118 ND ND 120 ND ND 120 ND ND 120 0.063 3.137E-04 142 0.412 2.494E-03 156 0.410 2.660E-03 156 0.410 2.988E-04 176 3.112 9.840E-03		8.176E-05 (9.8	34,209	1.852E-07	1	1.852E-07
106 0.374 1.651E-03 126 ND ND 12 128 0.285 1.515E-03 120 ND ND 120 ND ND 120 0.063 3.137E-04 142 0.412 2.454E-03 156 0.410 2.560E-03 150 0.120 2.988E-04 176 3.112 9.840E-03		QN	0.9429 ND	34,209	Q	1	2
126 ND ND 128 0.285 1.515E03 118 ND ND 120 ND ND 120 0.063 3.137E.04 142 0.412 2.434E.03 156 0.410 2.660E.03 60 0.120 2.398E.04 76 3.112 9.840E03		-04	9.4	34,209	2.008E-06	1	2.008E-06
128 0.285 1.515E-03 118 ND ND 120 ND ND 120 0.063 3.137E-04 142 0.412 2.434E-03 156 0.410 2.660E-03 60 0.120 2.398E-04 76 3.112 9.840E-03				34,209	Q	-	S
118 ND ND ND 120 ND 120 ND 120 ND 170	15E-03	4	0.9429 6.446E-04	34,209	1.377E-06	-	1.377E-06
120 ND ND ND 127E-04 120 0.063 3.137E-04 142 0.412 2.434E-03 156 0.410 2.660E-03 60 0.120 2.988E-04 60 0.120 6.050E-03 60 0.050E-03 60 0.120 6.050E-03 60 0.120 6.050		ON	0.9429 ND	34,209	ON	1	Q
120 0.063 3.137E-04 142 0.412 2.434E-03 156 0.410 2.660E-03 60 0.120 2.988E-04 76 3.112 9.840E-03			0.9429 ND	34,209	QN	1	Q
142 0.412 2.434E-03 156 0.410 2.660E-03 60 0.120 2.988E-04 76 3.112 9.840E-03		3.137E-04 (0.9429 3.327E-04	34,209	7.106E-07	1	7.106E-07
156 0.410 2.660E-03		1.091E-03	0.9429 1.157E-03	34,209	2.471E-06	1	2.471E-06
60 0.120 2.986E-04 76 3.112 9.840E-03			0.9429 1.753E-03	34,209	3.745E-06	1	3.745E-06
ulfide 76 3.112 9.840E-03	_	1.119E-04 (0.9429 1.187E-04	34,209	2.535E-07	1	2.535E-07
10 LELY 0	10E-03			34,209	2.109E-05	1	2.109E-05
84 0.099 3.45/E-04	3.457E-04 ND	3.457E-04 (0.9429 3.667E-04	34,209	7.831E-07	-	7.831E-07
Dimethyldisulfide 94 ND ND ND) QN	0.9429 ND	34,209	QN	1	Q

a Compounds in bold represent duplicate values. b Estimated from tracer data as presented in Volume IV.

TABLE A-7. AEC - SVOC DATA EVALUATION FOR GREEN PARACHUTE SIGNAL FLARE TEST (31 MARCH 1998)

			Average	Average Maximum	Average Minimum		Minimum		Minimi
	Average Concentration -	Average Concentration -	Background - Concentration,	Detection Limit - Concentration,	Detection Limit - Concentration,	Background Evaluation	Detection Limit Evaluation	Background Evaluation	Detection Limit Evaluation
Compound	Run 1, mg/m³	Run 1, mg/m³	mg/m³	mg/m³	mg/m³	Criteria	Criteria	Notes	Notes
Particulate/Vapor-phase SVOCs									
N-Nitrosodimethylamine	QN	ND	ND	1.756E-04	1.756E-04	Q	Q	L	ш
Pyridine	QN	QN	ND	5.148E-04	5.148E-04	ND	9	ட	L
2-Picoline	Ð	QN	ON	5.350E-04	5.350E-04	ND	QN	ட	ட
Methyl methanesulfonate	Q	QV	QN	2.024E-04	2.024E-04	ND	ON	Н.	Ė
N-Nitrosomethylethylamine	Q	Q	QN	4.017E-04	4.017E-04	QN	QN	F	Ŧ.
N-Nitrosodiethylamine	2	QN	QN	4.290E-04	4.290E-04	QN	QN	ш	4
Ethyl methanesulfonate	2	QN	QN	1.973E-04	1.973E-04	QN	2	ц.	F
Phenol	Q	QN	QN	1.262E-04	1.262E-04	ND	QN	4	F
Aniline	Q	QN	DN	2.014E-04	2.014E-04	ND	ND	ш	ட
bis(2-Chloroethyl)ether	QN	QN	ON	1.575E-04	1.575E-04	ND	N	ட	ட
Pentachloroethane	QV	QN	QN	3.639E-04	3.639E-04	ND	ND	Ŧ	ட
2-Chlorophenol	Q	QN	DN	8.024E-05	8.024E-05	QN	ON	Ł	ட
1,3-Dichlorobenzene	QN	ND	ON	1.549E-04	1.549E-04	ND	S	Щ	LL.
1,4-Dichlorobenzene	QV	QN	QN	3.109E-04	3.109E-04	QN	ND	F	ш
Benzyi alcohol	Q.	QN	an	3.518E-04	3.518E-04	ND	ND	F	ш
2-Methylphenol	Q	QN	QN	2.831E-04	2.831E-04	ND	ND	Ľ	щ
1,2-Dichlorobenzene	QN	QN	QN	2.251E-04	2.251E-04	ND	QN.	Ц	ட
bis(2-Chloroisopropyl)ether	QN	ND	QN	1.898E-04	1.898E-04	ND	Q	LL.	ш
o-Toluidine	QN	ND	QN	1.999E-04	1.999E-04	ON	Q	ц	ıL
4-Methylphenol/3-Methylphenol	QN	ND	QN	2.392E-04	2.392E-04	Q N	QN	ட	u.
N-Nitroso-di-n-propylamine	QN	ND	QN	1.418E-04	1.418E-04	QN	Q	ட	u.
Acetophenone	4.185E-04	4.185E-04	2.708E-04	1.489E-04	1.489E-04	1.55	2.81	Q	ပ
N-Nitrosomorpholine	QN	QN	QN	4.537E-04	4.537E-04	QN	QN	ı.	ш
N-Nitrosopyrrolidine	QN	QN	QN	6.006E-04	6.006E-04	QN	Q	ட	Ŀ
Hexachloroethane	ON	QN	QN	2.493E-04	2.493E-04	QN	2	Ь	щ
Nitrobenzene	QN	QN	QN	4.497E-04	4.497E-04	QN	Q	L	ш
N-Nitrosopiperidine	Q	Q	QV	3.679E-04	3.679E-04	QN	ND	ш	L
Isophorone	QN	2	QN	1.080E-04	1.080E-04	Q	Q	Щ	L.
2,4-Dimethylphenol	Q	2	9	1.701E-04	1.701E-04	2	Q.	<u>ш</u>	L
2-Nitrophenol	Q	Q	QN	2.705E-04	2.705E-04	ON !	QN:	ı l	_
bis(2-Chloroethoxy)methane	2 2	2 2	2 2	1.9/3E-04	1.9/3E-04	S	2 2	L	L
Denzoic aciu	2 5		2 2	1.0475-02	0.4705.04	212	2 2	_	_ _
Z,4-Uichiorophenol	S S	2 2		1 7015 04	1 7015 04		2 2	_ և	_ _
1,2,4-1 richioropenzene	ON C	ON 0	ON C	1.7016-04	1.7015-04	250	250	-	
Naphthalene	6.085E-04	5.085E-04	Z.995E-04	Z.Z56E-04	Z.Z30E-U4	20.7	2.70	ا د	ا د
p-Chloroaniline	2	2	ON:	1.625E-04	1.525E-04	2	QN S	_	_
2,6-Dichlorophenol	Q :	Q!	QN.	1.736E-04	1./36E-04	2 5	Q.	_	_
Hexachloropropene	Q	Q	Q	2.851E-04	2.851E-04	2	QN !	.	_
Hexachlorobutadiene	Q	Q	9	2.574E-04	2.574E-04	2	2	<u>ı.</u>	ı. I
Dimethylphenethylamine	Q !		9	1.030E-02	1.030E-02	Q !	Q S	_	
N-Nitroso-di-n-butylamine	Q	QN	Q	1.887E-04	1.887E-04	ON	ON.	-	_
					1				

TABLE A-7. AEC - SVOC DATA EVALUATION FOR GREEN PARACHUTE SIGNAL FLARE TEST (31 MARCH 1998)

And	Average Concentration - Run 1, mg/m³	Average Concentration	Average Background - Concentration, mg/m³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³	Background Evaluation Criteria	Minimum Detection Limit Evaluation Criteria	Background Evaluation Notes	Minimum Detection Limit Evaluation Notes
14-Chloro-3-methylphenol	QN	ND	QN	2.861E-04	2.861E-04	QN	QN	ı.	ц
Safrole	QN	Ð	QN	3.588E-04	3.588E-04	QN	QN	L	u.
2-Methylnaphthalene	2.645E-04	2.645E-04	QN	1.812E-04	1.812E-04	10.00	1.46	A	O
1,2,4,5-Tetrachlorobenzene	2	QN	QN	2.756E-04	2.756E-04	QN	ND	F	u.
Hexachlorocyclopentadiene	ON	ON	Q	5.602E-03	5.602E-03	ND	ND	4	4
2,4,6-Trichlorophenol	ND	ND	ND	3.184E-04	3.184E-04	ND	ND	J	Ъ
2,4,5-Trichlorophenol	QN	Q	ND	2.705E-04	2.705E-04	ND	ND	F	ш
Isosafrole	QN	Q.	QN	5.450E-04	5.450E-04	QN	ND	J	F
2-Chloronaphthalene	ND	ND	QN	2.846E-04	2.846E-04	ND	ND	Ŧ.	14.
2-Nitroaniline	ND	ND	QN	1.807E-04	1.807E-04	QN	ND	Ł	щ
1,4-Naphthoquinone	ND	ND	ON	5.047E-04	5.047E-04	QN	ND	L	Ŀ
Dimethylphthalate	ND	ON	ON	1.469E-04	1.469E-04	ND	ND	ш.	±
1,3-Dinitrobenzene	ND	ND	QN	4.224E-04	4.224E-04	ON	ND	4	F
2,6-Dinitrotoluene	ND	QN	QN	3.553E-04	3.553E-04	QN	ND	11.	F
Acenaphthylene	QV	9	Q	1.650E-04	1.650E-04	QN	QN	ц.	Ь
3-Nitroaniline	Q	Q	Q	4.446E-04	4.446E-04	QN	QN	ш.	4
4-Nitrophenol	9	9	2	1.549E-02	1.549E-02	2	9	ш.	ш,
2,4-Dinitrophenol	QV	QV	9	1.590E-02	1.590E-02	QN	QN	ш	u.
Acenaphthene	ND	QN	QN	1.817E-04	1.817E-04	ON	ND	F	T.
2,4-Dinitrotoluene	ON	QN	QN	2.246E-04	2.246E-04	QN	ND	Э.	T.
Dibenzofuran	ND	QN	QN	1.231E-04	1.231E-04	ON	ND	ъ	Œ
Pentachlorobenzene	ND	S	QN	3.401E-04	3.401E-04	2	NO	ட	ட
1-Naphthylamine	ND	ND	ON	8.882E-04	8.882E-04	ON	ND	ш	L
2-Naphthylamine	ND	ND	ON	7.873E-04	7.873E-04	Q	Q	ட	ıL
2,3,4,6-Tetrachlorophenol	Q	Q	QN	3.603E-04	3.603E-04	QN	NO	u.	ıL
Diethylphthalate	2.019E-03	2.019E-03	3.475E-04	1.312E-04	1.312E-04	5.81	15.39	В	A
4-Chlorophenylphenyl ether	Q	ND	ON	1.428E-04	1.428E-04	QN	ND	Ŧ	u.
Fluorene	Q	2	Q	1.716E-04	1.716E-04	Q	9	ட	ட
5-Nitro-o-toluidine	2	2	QN	1.832E-04	1.832E-04	Q	2	ட	ட
4-Nitroaniline	2	QQ	Q	3.911E-04	3.911E-04	Q	Q	ш	u.
4,6-Dinitro-2-methylphenol	2	Q	Q	1.373E-02	1.373E-02	9	Q	4	ш
Diphenylamine/N-NitrosoDPA	QQ.	QN	Q	1.857E-04	1.857E-04	Q	Q	L.	Ŀ
sym-Trinitrobenzene	2	Q	2	6.308E-04	6.308E-04	2	Q	u.	u.
Diallate	Q	ND	ON	2.397E-04	2.397E-04	ON	ND	щ	ட
Phenacetin	QN	QN	ON	1.130E-04	1.130E-04	ON	ND	Ŧ	ш
4-Bromophenylphenyl ether	NO.	ND	ON	3.477E-04	3.477E-04	ND	DN	. Н	Ł
Hexachlorobenzene	ON	QN	ON	1.872E-04	1.872E-04	ON	ND	Ь	4
4-Aminobiphenyl	Q	Q	QN	1.045E-03	1.045E-03	QN	QN	4	ш.
Pronamide	QN	QN	Q	1.297E-04	1.297E-04	QN	QN	J	UL.
Pentachlorophenol	QN	QN	QN	1.453E-02	1.453E-02	ON	DN	H.	ıL
Pentachloronitrobenzene	QN	QN	QN	6.763E-04	6.763E-04	QN	DN	4	ц
Phenanthrene	QN	QN	QN	3.079E-04	3.079E-04	ON	DN	4	Œ.
Anthracene	ON	Q	QN	1.847E-04	1.847E-04	Q	QN	ш,	ıL

TABLE A-7. AEC - SVOC DATA EVALUATION FOR GREEN PARACHUTE SIGNAL FLARE TEST (31 MARCH 1998)

Average Average Average Background- Develope Maximum Average Maximum Average Maximum Average Minimum Average Background- Develope ILinit - Concentration. Average Concentration. Average Concentration. Average Develope ILinit - Concentration. Concentration - Concentration - Concentration - Concentration. Concentration - Concentration.										
Oundating of the contentration of the contentrati		Average	Average	Average Background -		Average Minimum	2000	Minimum	partition	Minimum Detection I imit
Marcache		Concentration -	Concentration -	Concentration,	Concentration,	Concentration,	Evaluation	Evaluation	Evaluation	Evaluation
ND ND ND 1,237E-04 1,237E-05 1,350E-04 1,357E-05 1,357E-04 1	Compound	Run 1, mg/m	Run 1, mg/m	mg/m	mg/m_	mg/m_	Criteria	Criteria	Notes	Notes
e 9,726E-04 9,726E-04 1,357E-03 8,79E-05 0,72 11,34 F ND ND ND ND 1,136E-02 1,045E-02 ND ND F ND ND ND ND 1,136E-02 1,045E-02 ND ND F ND ND ND ND 1,045E-02 ND ND P F ND ND ND ND 1,045E-02 1,045E-02 ND ND F ND ND ND ND ND ND ND F P ND ND ND ND 1,587E-04 1,587E-04 ND ND F ND ND ND 1,575E-04 1,575E-04 ND ND F ND ND ND 1,575E-04 1,575E-04 ND ND F ND ND ND ND 1,575E-04 1,575E-04 ND ND F	Carbazole	QN	QN	QV	1.236E-04	1.236E-04	ND	QN	F	ட
e ND ND ND 1,136E-02 1,136E-02 ND ND P ND ND ND 1,045E-02 1,045E-02 ND ND P ND ND ND 1,875E-04 1,045E-02 ND ND P ND ND ND ND 1,875E-04 2,503E-04 ND ND P ND ND ND ND 1,875E-04 1,875E-04 ND ND P ND ND ND ND 1,875E-04 ND ND P ND ND ND 1,875E-04 1,875E-04 ND ND P ND ND ND 1,875E-04 1,875E-04 ND ND P ND ND ND 1,875E-04 1,875E-04 ND ND P ND ND ND ND 1,875E-04 1,875E-04 ND ND P ND ND	Di-n-butylphthalate	9.726E-04	9.726E-04	1.357E-03	8.579E-05	8.579E-05	0.72	11.34	F	A
ND	4-Nitroquinoline-1-oxide	S	QN	Q	1.136E-02	1.136E-02	ND	QΝ	F	ч
ND	Methapyrilene	2	QV	2	1.045E-02	1.045E-02	ND	GN	F	L
ND	Fluoranthene	S	QV	9	1.822E-04	1.822E-04	QN	QN	F	F
ND	Benzidine	Q.	Q	Q	6.763E-03	6.763E-03	ŅD	QN	F	F
nazene ND ND 1.857E-04 1.857E-04 ND ND P ND ND ND 1.035E-04 2.884E-04 ND ND P ND ND ND 1.035E-04 1.035E-04 ND ND F ND ND ND 1.035E-04 1.035E-04 ND ND F ND ND ND ND 1.635E-04 1.575E-04 ND ND F Reference ND ND ND 1.635E-04 1.575E-04 ND ND F Reference ND ND ND 1.631E-04 ND ND F P Reference ND ND 1.631E-04 1.575E-04 ND ND F P Reference ND ND 1.575E-04 ND ND P P Reference ND ND 1.575E-04 ND ND ND P Referenc	Pyrene	Q	Q	QN	2.503E-04	2.503E-04	QN	QN	F	ш
ND	p-Dimethylaminoazobenzene	Q	Q	QN	1.857E-04	1.857E-04	ND	QN	ш	
ND	Chlorobenzilate	Q.	QN	QN	2.584E-04	2.584E-04	QN	QN	F	L.
ND	Kepone	QN	QN	QN	9.488E-03	9.488E-03	ND	QN	Ŧ	ı.
ND ND ND 9.993E-04 9.993E-04 ND ND ND alte ND ND 1.575E-04 1.575E-04 ND ND ND AND ND ND 1.691E-04 1.691E-04 ND ND ND ND ND ND 2.281E-04 ND ND ND ND ND ND ND ND 2.281E-04 ND ND ND Infhracene ND ND ND 1.575E-04 1.575E-04 ND ND (a) ND ND ND 1.403E-04 ND ND ND (a) ND ND 1.403E-04 1.403E-04 ND ND ND (a) ND ND 1.403E-04 1.403E-04 ND ND ND (a) ND ND ND 1.403E-04 ND ND ND (a) ND ND ND 1.660E-04 <t< td=""><td>Butylbenzylphthalate</td><td>QN</td><td>QN</td><td>QN</td><td>1.035E-04</td><td>1.035E-04</td><td>ON</td><td>QN</td><td>Ŧ</td><td>Ľ.</td></t<>	Butylbenzylphthalate	QN	QN	QN	1.035E-04	1.035E-04	ON	QN	Ŧ	Ľ.
ND	3,3'-Dimethylbenzidine	QN	QN	ND	9.993E-04	9.993E-04	ND	QN	F	F
late ND ND ND 6.157E-04 6.157E-04 ND ND ND ND ND 1691E-04 1.691E-04 ND	2-Acetylaminofluorene	QN	ΩN	QN	1.575E-04	1.575E-04	ND	QN	F	L.
ND ND ND 1.691E-04 1.691E-04 ND ND ND ND ND ND ND N	bis(2-Ethylhexyl)phthalate	QV	QN	QN	6.157E-04	6.157E-04	ND	QN	F	F
ND ND ND ND 2.281E-04 2.281E-04 ND	3,3'-Dichlorobenzidine	S.	Q	Q	1.691E-04	1.691E-04	QN	QN	F	4
late ND ND ND 2.463E-04 2.463E-04 ND ND ND enz(a)anthracene ND ND 1.575E-04 1.575E-04 ND ND ND enz(a)anthracene ND ND 1.575E-04 1.575E-04 ND ND ND onthene (a) ND ND 1.403E-04 ND ND ND ND nthene (a) ND ND 1.605E-04 1.605E-04 ND ND ND threne (a) ND ND 1.605E-04 ND ND ND ND threne (a) ND ND 1.605E-04 ND ND ND ND threne (a) ND ND 1.605E-04 1.605E-04 ND ND ND threne (a) ND ND 1.605E-04 1.605E-04 ND ND ND threne (a) ND ND 1.605E-04 1.605E-04 ND ND ND threne	Benz(a)anthracene	2	2	Q	2.281E-04	2.281E-04	QN	QN	F	Ŧ
late ND ND ND 1.575E-04 1.575E-04 ND ND ND enz(a)anthracene ND ND 2.327E-04 2.327E-04 ND ND ND other (a) ND ND 1.403E-04 1.403E-04 ND ND ND nthene (a) ND ND ND 1.606E-04 ND ND ND nthrene (a) ND ND ND 1.666E-04 ND ND ND nthrene (a) ND ND ND 1.666E-04 ND ND ND nthrene (a) ND ND ND 1.666E-04 ND ND ND nthrene (a) ND ND ND 1.066E-04 ND ND ND nthrene (a) ND ND 1.066E-04 1.066E-04 ND ND ND nthrene (a) ND ND 1.066E-04 1.066E-04 ND ND ND nthrene (a)	Chrysene	QN	QN	QN	2.463E-04	2.463E-04	ON	QN	F	L.
enz(a)anthracene ND ND ND 2.327E-04 2.327E-04 ND ND ND nthene (a) ND ND 1.403E-04 1.403E-04 ND ND ND nthene (a) ND ND ND 2.932E-04 2.932E-04 ND ND ND nthrene (a) ND ND ND 1.660E-04 ND ND ND ND nthrene (a) ND ND ND 1.660E-04 ND ND ND ND nthrene (a) ND ND ND 1.165E-04 ND ND ND ntracene ND ND 1.105E-04 1.105E-04 ND ND ND ntracene ND ND 1.191E-04 1.191E-04 ND ND ND	Di-n-octylphthalate	ON	QN	QN	1.575E-04	1.575E-04	ND	ON	F	Ь
nthene (a) ND ND 1.403E-04 1.403E-04 ND ND ND nthene (a) ND ND ND 2.932E-04 2.932E-04 ND ND ND nthene ND ND ND 1.660E-04 ND ND ND threne ND ND ND 1.105E-04 ND ND ND d)pyrene ND ND 1.105E-04 1.105E-04 ND ND ND hracene ND ND ND 1.191E-04 1.191E-04 ND ND ND	7,12-Dimethylbenz(a)anthracene	QN	QN	QN	2.327E-04	2.327E-04	ON	ON	F	Ŧ
nthene (a) ND ND ND 2.932E-04 2.932E-04 ND ND ND filtere ND ND 1.660E-04 1.660E-04 ND ND ND dthrene ND ND ND 1.165E-04 1.05E-04 ND ND dthrene ND ND 1.165E-04 1.165E-04 ND ND ND hracene ND ND ND 1.191E-04 1.191E-04 ND ND ND ylene ND ND ND 1.191E-04 1.191E-04 ND ND ND	Benzo(b)fluoranthene (a)	QN	QN	QN	1.403E-04	1.403E-04	ND	QN	F	ı.
ND ND ND 1.660E-04 1.660E-04 ND ND ND Ithrene ND ND S.905E-04 5.905E-04 ND ND ND Jjyvrene ND ND ND 1.105E-04 1.105E-04 ND ND nracene ND ND ND 1.241E-04 ND ND ND rylene ND ND ND 1.191E-04 1.191E-04 ND ND ND	Benzo(k)fluoranthene (a)	Q	QN	QV	2.932E-04	2.932E-04	QN	ON	F	F
Ithrene ND ND ND 5.905E-04 5.905E-04 ND ND ND Jjpyrene ND ND 1.105E-04 1.105E-04 ND ND ND hracene ND ND ND 1.241E-04 ND ND ND rylene ND ND ND 1.191E-04 1.191E-04 ND ND	Benz(a)pyrene	QN	QN	QN	1.660E-04	1.660E-04	QN	QN	Ł	Ь
ne ND ND ND 1.105E-04 1.105E-04 ND ND ND ne ND ND ND 1.241E-04 ND ND ND n ND ND 1.191E-04 1.191E-04 ND ND ND	3-Methylcholanthrene	Q	QN	QN	5.905E-04	5.905E-04	Q	ON	4	H.
1.241E-04 1.241E-04 ND	Indeno(1,2,3-cd)pyrene	QN	QN	QN	1.105E-04	1.105E-04	QN	QN	F	
ND ND ND 1.191E-04 1.191E-04 ND	Dibenz(a,h)anthracene	QN	QN	QN	1.241E-04	1.241E-04	ND	ON	F	Ь
	Benzo(g,h,i)perylene	S	QV	Q	1.191E-04	1.191E-04	QN	QN	4	Ŀ

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

TABLE A-8. AEC - SVOC RUN NO. 1 DATA FOR GREEN PARACHUTE SIGNAL FLARE TEST (31 MARCH 1998)

hase SVOCs interest			0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575	999999999999	34,209 34,209 34,209 34,209 34,209 34,209 34,209 34,209 34,209 34,209 34,209	888	_	,
amine 74 ND 79 ND 124 ND 124 ND 125 ND 125 ND 125 ND 129 ND 120 ND 147 ND 147 ND 147 ND 147 ND 148 ND 158 ND 159 ND 158 ND 159 ND 159 ND 159 ND 159 ND 150 ND 150 ND 150 ND 150 ND 150 ND 150 ND 151 ND 151 ND 152 ND 153 ND 154 ND 155 N			0.8875 0.8875 0.8875 0.8875 0.8875 0.8875 0.8875 0.8875 0.8875 0.8875 0.8875 0.8875 0.8875 0.8875 0.8875 0.8875 0.8875	999999999999	34,209 34,209 34,209 34,209 34,209 34,209 34,209 34,209 34,209 34,209	999		
139			0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575	9999999999999	34,209 34,209 34,209 34,209 34,209 34,209 34,209 34,209 34,209	9 5	-	Q
and the state of the control of the			0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575	2222222222	34,209 34,209 34,209 34,209 34,209 34,209 34,209 34,209	_	-	Q
ate 110 ND amine 88 ND amine 124 ND ate 124 ND ate 94 ND ate 94 ND ate 94 ND ate 129 ND ate 129 ND ate 147 ND ate 147 ND ate 147 ND ate 148 ND ate 122 ND ate 123 ND ate 124 ND ate 125 ND ate 125 ND ate 126 ND ate 126 ND ate 127 ND ate 128 ND			0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575	22222222	34,209 34,209 34,209 34,209 34,209 34,209 34,209	2 2	-	2
amine 88 ND ate 1124 ND ate 124 ND er 202 ND 129 ND 129 ND 147 ND 148 ND 148 ND 158 ND 163 ND 164 ND 165 N			0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575	222222222	34,209 34,209 34,209 34,209 34,209	2 2	- -	2 2
e 102 ND ate 124 ND ate 94 ND er 202 ND 143 ND 143 ND 147 ND 147 ND 147 ND 147 ND 147 ND 148 ND 147 ND 147 ND 148 ND 148 ND 148 ND 148 ND 148 ND 158 ND 159 ND 159 ND 158 ND 158 ND 159 ND 159 ND 159 ND 150			0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575	22222222	34,209 34,209 34,209 34,209	2 2		2 2
atie 124 ND er 143 ND er 143 ND er 202 ND 129 ND 147 ND 148 ND 147 ND 147 ND 148 ND 148 ND 149 ND 149 ND 149 ND 150 ND 151 ND 152 ND 153 ND 154 ND 155 ND 158 ND 159 ND 159 ND 158 ND 158 ND 158 ND 158 ND 158 ND 158 ND 159 ND 150 ND 151 ND 152 ND 153 ND 154 ND 155 ND			0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575	2222222	34,209 34,209 34,209	2 2	-	2 2
er 143 ND er 202 ND 129 ND 147 ND 147 ND 147 ND 147 ND 168 ND 169 ND 173 ND 174 ND 175			0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575		34,209 34,209	2 2		2 2
er 143 ND 129 ND 129 ND 147 ND 147 ND 168 ND 171 ND 171 ND 171 ND 171 ND 171 ND 172 ND 173 ND 174 ND 175 ND			0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575 0.8575		34,209	2 2	-	2 2
129 ND 129 ND 147 ND 147 ND 168 ND 168 ND 168 ND 168 ND 171 ND 171 ND 171 ND 172 ND 173 ND 174 ND 175 ND			0.8575 0.8575 0.8575 0.8575 0.8575 0.8575	Q Q Q Q		200	-	2
129 ND 147 ND 147 ND 147 ND 147 ND 148 ND 148 ND 147 ND 148 ND 148 ND 148 ND 148 ND 148 ND 158 ND 1			0.8575 0.8575 0.8575 0.8575 0.8575 0.8575	<u> </u>	34,209	Q	-	Q
147			0.8575 0.8575 0.8575 0.8575 0.8575	QN	34,209	Q	-	Q
147 ND 108 ND 108 ND 108 ND 109 ND 147 ND 147 ND 150 ND 150 ND 150 ND 150 ND 153 ND 153 ND 152 ND 153 ND 154 ND 155 ND 158 ND			0.8575 0.8575 0.8575 0.8575	QN	34,209	QN	-	QN
108 ND 108 ND 147 ND 147 ND 147 ND 147 ND 167 ND 180 ND 18			0.8575 0.8575 0.8575		34,209	QN	-	QN
108 ND Jether 171 ND 147 ND 147 ND 147 ND 107 ND 130 ND 130 ND 120 ND 123 ND 122 ND 122 ND 122 ND 122 ND 124 ND 125 ND 125 ND 126 ND 127 ND 128 ND 129 ND 120 ND 120 ND 121 ND 122 ND 123 ND 1249 ND 125 ND 1261 ND 127 ND 128 ND 128 ND 129 ND 129 ND 143 ND 143 ND 143 ND	-		0.8575 0.8575 0.8575	ON	34,209	QV	-	Q
thypphenol 177 ND Interpretation 177 ND Interpretation 177 ND Interpretation 179 ND Inte			0.8575	QN	34,209	Q	-	Q
thyphenol 107 ND amine 171 ND Ityphenol 108 ND Ityphenol 120 0.084 Ito ND Ityphenol 100 ND Ityphenol 100 ND Ityphenol 100 ND Ityphenol 114 ND Ityphenol 122 ND Ityphenol 123 ND Ityphenol 123 ND Ityphenol 124 ND Ityphenol 128 ND Ityph			0.9575	QN	34,209	Q	-	Q
triyiphenol 107 ND amine 108 ND amine 120 0.084 110 ND 110 ND 1237 ND 1237 ND 1237 ND 1249 ND 125 ND 126 ND 127 ND 128 ND 129 ND 120 ND 121 ND 122 ND 123 ND 1249 ND 125 ND 126 ND 127 ND 128 ND 128 ND 128 ND 128 ND 129 ND 120 ND 120 ND 121 ND 122 ND 123 ND 124 ND 125 ND 126 ND 127 ND 128 ND 143 ND	-		0.000	Q	34,209	Q	-	Q
thypithenol 108 ND amine 130 ND ND amine 120 0.084 116 ND 100 ND 100 ND 123 ND 122 ND 122 ND 122 ND 122 ND 122 ND 122 ND 123 ND			0.8575	Q	34,209	QN	-	Q
amine 130 ND amine 120 0.084 110 ND 100 ND 1237 ND 123 ND 124 ND 125 ND 126 ND 127 ND 128 ND 129 ND 120 ND 120 ND 121 ND 122 ND 123 ND 1249 ND 125 ND 125 ND 126 ND 127 ND 128 ND 128 ND 128 ND 128 ND 129 ND 129 ND 120 ND 120 ND 120 ND 121 ND 122 ND 123 ND 1249 ND 125 ND 126 ND 127 ND 128 ND	$\frac{1}{2}$		0.8575	QN	34,209	Q	-	Q
120 0.084 116 ND 100 ND 100 ND 113 ND 122 ND 122 ND 122 ND 122 ND 122 ND 123 ND 124 ND 128 ND	٥	2	0.8575	Q	34,209	QN	-	ON S
115 ND 123 ND 124 ND 125 ND 125 ND 125 ND 126 ND 127 ND 127 ND 128 ND	5E-04	_	0.8575	1.723E-04	34,209	3.679E-07		3.679E-07
100 ND 113 ND 114 ND 118 ND	+	2 9	0.85/5	2 2	24,209	2 2		2 2
1123 ND 1134 ND 1136 ND 1120 ND 1139 ND 1139 ND 1122 ND 1122 ND 1123 ND 1124 ND 1128 ND	+	2 2	0.85/5	2 2	34,209	2 2	- -	
nethane 122 ND 138 ND 139 ND 173 ND 173 ND 173 ND 173 ND 173 ND 173 ND 174 ND 175 ND 1			0.6575	2 2	34 200	2 2		2 2
138 ND 122 ND 139 ND 139 ND 139 ND 163 ND 163 ND 163 ND 164 ND 165 ND	QN	28	0.8575	2 2	34.209	20		Q
rethane 122 ND 139 ND 139 ND 139 ND 123 ND 123 ND 124 ND 128		2	0.8575	2	34,209	Q	-	Q
139 ND 1413 ND 152 ND 163 ND 163 ND 164 0.114 128 0.114 128 ND 163 ND 164 ND 165 ND 166 ND 167 ND 168 ND 169 ND 160 ND 161 ND 162 ND 163 ND 164 ND 165 ND 165 ND 165 ND 165 ND 165 ND 165 ND		QV	0.8575	QN	34,209	QN	1	QN
nethane 173 ND ND 122 ND 122 ND		QN	0.8575	QN	34,209	QN	-	Q
122 ND 163 ND 163 ND 178 0,114 128 ND 163 ND 163 ND 164 ND 165 ND 169 ND 169 ND 169 ND 169 ND 160 ND 160 ND 160 ND 161 ND 162 ND 162 ND 163 ND 165 ND 165 ND		9	0.8575	Q	34,209	2	-	Q
ne 163 ND ND ND 128 ND 144 ND	1	2	0.8575	Q S	34,209	2		2
128 0,114 128 ND 128 ND 163 ND 249 ND 10 261 ND 10 261 ND 10 261 ND 10 143 ND	1	2 2	0.85/5	2 2	34,209	2 2	- -	2 2
128 ND 163 ND 163 ND 249 ND 162 ND 162 ND 162 ND 162 ND 162 ND 163 ND 163 ND 164 ND 165 ND	5F-04	3.0896-04	0.8575	3 603F-04	34 209	7 694F-07	-	7 694F-07
163 ND 249 ND in 261 ND inine 149 ND inine 158 ND inine 143 ND		QN	0.8575	QN	34,209	Q		NO.
249 ND		Q	0.8575	QN	34,209	QN	1	QN
ine 261 ND ine 149 ND mine 158 ND and 143 ND 142 ND 142 ND		QV	0.8575	QN	34,209	QN	1	QN
ine 149 ND mine 158 ND and 143 ND 162 ND 162 ND 142 OAK	ON ON	QN	0.8575	QN	34,209	QN	-	QN
mine 158 ND anol 143 ND 162 ND 162 ND 162 ND		QN	0.8575	QV	34,209	Q	-	Q
anoi 143 ND 162 ND 142 0 ND	-	QN	0.8575	Q	34,209	Q	-	Q
162 ND		QN	0.8575	2	34,209	Q		Q
	0	QV .	0.8575	ON ON	34,209	ON C		ON
Cto.0		2.645E-04	0.85/5	3.085E-04	34,209	6.588E-U/		0.588E-U/
216 UN ST.	ON CON	Q	0.8575	2	34,209	2 2		2 2
agiene 2/3			0.85/5	2 9	34,209	2 2		2 5
ON		ON I	0.85/5	2	34,209	Q.	-	Q

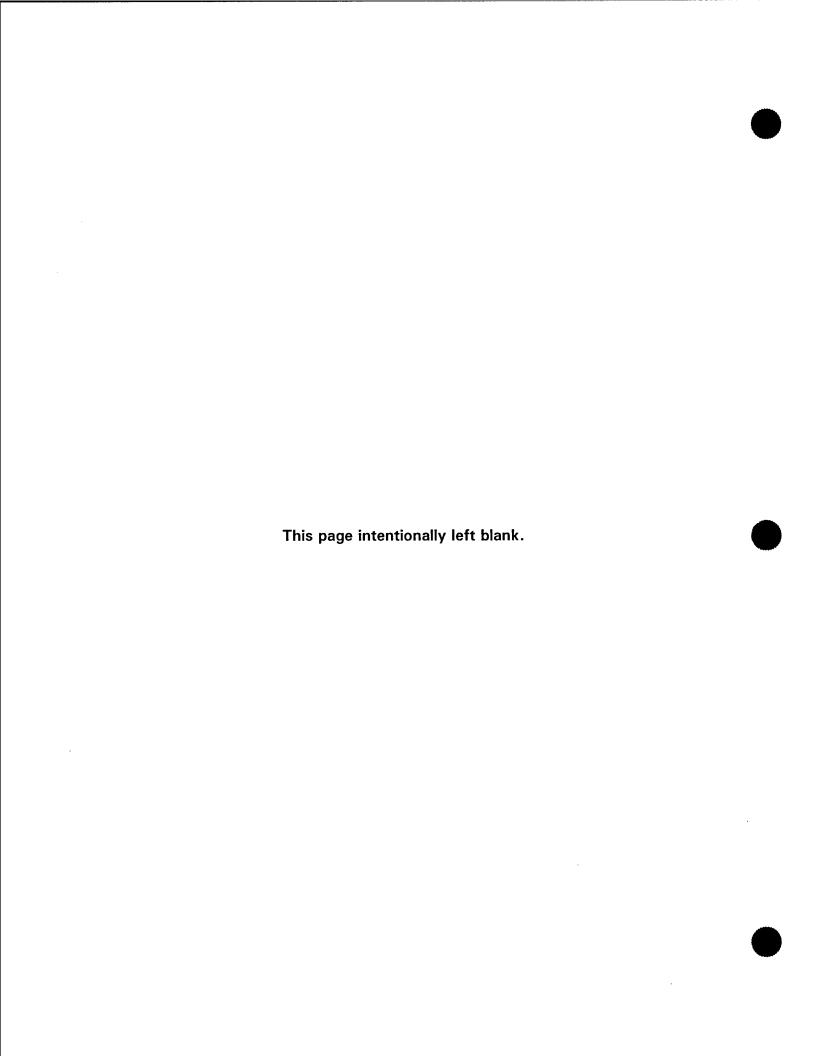
TABLE A-8. AEC - SVOC RUN NO. 1 DATA FOR GREEN PARACHUTE SIGNAL FLARE TEST (31 MARCH 1998)

					Background						Corrected
	Molecular	Average Concentration -	Average Concentration -	Background - Concentration,	Corrected Concentration -	Dilution Correction	Corrected Concentration -	Initial Plume	Sample Total Material - Run	Number of	Emission Factor - Run
Compound	Weight	Run 1, ppbv	Run 1, mg/m³	mg/m³	Run 1, mg/m³	Factor (b), %	Run 1, mg/m³	Volume, ft³	1, lb	Items	1, Ib/item
2,4,5-Trichlorophenol	197	QN	ON	QN	ON	0.8575	QN	34,209	Q	1	Q
Isosatrole	162	QV S	2	2	Q.	0.8575	Q	34,209	2	-	9
Z-Chloronaphinalene	201		Q S	2	2	0.8575	2	34,209	2	_	2
Z-Nitroaniine	138	Q.	Q	2	Q	0.8575	Q.	34,209	Q	-	2
1,4-Naphthoquinone	158	QN	2	Q	Q	0.8575	Q	34,209	QN	1	2
Dimethylphthalate	194	QN	Q	QN	Q	0.8575	Q	34,209	QN	-	Q
1,3-Dinitrobenzene	168	Q	NO	ND	QN	0.8575	QN	34,209	QN	1	Q
2,6-Dinitrotoluene	182	QN	QN	QN	QN	0.8575	QN	34,209	Q	-	Q
Acenaphthylene	152	QN	QN	QN	QN	0.8575	QV	34,209	Ð	-	QN
3-Nitroaniline	138	QN	QN	QV	Q	0.8575	Q	34,209	QN	-	Ð
4-Nitrophenol	139	QN	QN	QV	Q	0.8575	Q	34,209	QN	-	QV
2,4-Dinitrophenol	184	QN	QN	QN	ON	0.8575	QN	34,209	QN	-	Q
Acenaphthene	154	QN	QN	QN	QN	0.8575	QV	34,209	Q.	-	Ð
2,4-Dinitrotoluene	182	QN	QN	QN	ON	0.8575	QV	34,209	Q.	_	Q
Dibenzofuran	168	QN	QN	QN	QN	0.8575	QV	34,209	Q	-	ð
Pentachlorobenzene	250	QN	QN	QN	QN	0.8575	QV	34,209	Q	1	ð
1-Naphthylamine	143	QN	QN	QN	QN	0.8575	QV	34,209	QV	-	9
2-Naphthylamine	143	QN	QN	QN	QN	0.8575	QV	34,209	QV	-	ð
2,3,4,6-Tetrachlorophenot	232	QN	QN	ON	ON	0.8575	QV	34,209	Q	-	S
Diethylphthalate	222	0.219	2.019E-03	3.475E-04	1.672E-03	0.8575	1.950E-03	34,209	4.164E-06	1	4.164E-06
4-Chlorophenylphenyl ether	205	QN	ON	ON	QN	0.8575	ON	34,209	Q	-	2
Fluorene	166	QN	ON	ON	ND	0.8575	QN	34,209	ON	1	Q
5-Nitro-o-toluidine	152	QN	ON	ND	ON	0.8575	QN	34,209	QN	1	Q
4-Nitroaniline	138	QV	Q	ON	ON	0.8575	QN	34,209	QN	1	QN
4,6-Dinitro-2-methylphenol	198	Q	Q	S	QV	0.8575	ON	34,209	QN	1	QN
Urphenylamine/N-NrtrosoDPA	169	Q.	Q	Q	QN	0.8575	Q	34,209	QN	1	Q
sym- i nnitrobenzene	213	QN.	Q.	Q	2	0.8575	Q	34,209	QN	-	2
Charlate	270	Q C	2	Q :	0	0.8575	2	34,209	Q	-	2
rienaceun 4 Promonton Johan Johan	1/9	2 5	QV.	2	2	0.8575	QV.	34,209	Q.	-	2
Hosseklatokonago	567	2 2	2 2	2 9	2 5	0.8575	Q S	34,209	ON C	-	QN.
4.6 minobiopond	507	Q Q	2 2	2 2	2 2	0.6575		34,209	2		
Pronamide	228	2 2	2 2	2 2	2 2	0.6575	2 2	24,209	2 2		2 5
Pentachlorophenol	266	QN	2 2	2 5	2 2	0.8575	2 2	24 209	2 2	-	2 2
Pentachloronitrobenzene	295	QN	Q	2	2	0.8575	Q	34.209	Q	-	2 2
Phenanthrene	178	QN	QN	QN	QN	0.8575	QN	34,209	Q	-	Q
Anthracene	178	QN	QN	QN	ON	0.8575	QN	34,209	QN	1	S
Carbazole	167	Q	Q	QN	ND	0.8575	QN	34,209	QN	1	Q
Ui-n-butyiphthalate	278	0.084	9.726E-04	1.357E-03	-3.843E-04	0.8575	Q	34,209	Q	1	Q
4-introduitionine-1-oxide	061	2 5	2	QV.	2	0.8575	2	34,209	Q	-	2
Meinapyniene	762		ON.	QV.	Q.	0.8575	9	34,209	Q	-	Q
Fluoranmene	202	Q	Q.	2	2	0.8575	2	34,209	Q	-	2
Senzidine	184	Q S	QN	2	QN	0.8575	QN	34,209	Q	-	Q
ryrene Di 1. 1. 1. 1.	202	2	QV.	Q.	9	0.8575	9	34,209	QN	-	2
p-Dimemylarninoazooenzene	622	2 5	Q.	QN:	QN	0.8575	Q	34,209	QN	-	Q
Chioropenzuate	325	2 2	2	Q S	Q.	0.8575	9	34,209	2		2
Britylhenzylphthalate	312	Q CN	2 2	22	2 2	0.8575	2 2	34,209	2 2	-	2
3.3'-Dimethylbenzidine	212	CN.	2 2	2 2	2 2	0.6373	2 2	34,203	2 2	- -	2 2
2-Acetylaminofluorene	223	Q	2 2	2 2	22	0.6575	2 2	34,209	2 2	-	2 2
]	1)	0,000	5	24,203	2	_	בו

TABLE A-8. AEC - SVOC RUN NO. 1 DATA FOR GREEN PARACHUTE SIGNAL FLARE TEST (31 MARCH 1998)

Corrected Emission Factor - Run 1, Ib/Item	QN	N	ON	ND	ND	ND	ND	ND	ND	NO	NO	ND	Q
Number of Items	1	-	1	1	1	+	1	-	1	-	1	1	1
Sample Total Material - Run 1, Ib	QN	QN	QN	QN	ND	DN	ND	QN	QN	QN	ND	ND	ND
Initial Plume Volume, ft²	34,209	34,209	34,209	34,209	34,209	34,209	34,209	34,209	34,209	34,209	34,209	34,209	34,209
Corrected Concentration - Run 1, mg/m³	QN	QN	9	Q	QN	QN	QN	QN	QN	QN	QN	QN	QN
Dilution Correction Factor (b), %	0.8575	0.8575	0.8575	0.8575	0.8575	0.8575	0.8575	0.8575	0.8575	0.8575	0.8575	0.8575	0.8575
Background Corrected Concentration - Run 1, mg/m²	QN	Q	Ð	Q	QN	QN	Q	Q	QN	ON	Q	Q	QV
Background - Concentration, mg/m³	QN	Q	Q	Q	Q	Q	QN	QV	QN	QN	Q	QN	QN
Average Concentration - Run 1, mg/m³	QN	QV	Q	QN	Q	Q	Q	QN	Q	Q	S	QN	QN
Average Concentration -	QN	Q	QV	Q	QN	Q	S	QN	QN	ą	Q	QN	QN
Molecular Weight	391	253	228	228	391	256	252	252	252	568	276	278	276
Compound	is(2-Ethylhexyi)phthalate	3'-Dichlorobenzidine	enz(a)anthracene	hrysene	i-n-octylphthalate	12-Dimethylbenz(a)anthracene	enzo(b)fluoranthene (a)	enzo(k)fluoranthene (a)	lenz(a)pyrene	-Methylcholanthrene	Ideno(1,2,3-cd)pyrene	ibenz(a,h)anthracene	enzo(g,h,i)perylene

a
Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.
b
Estimated from tracer data as presented in Volume IV.



WHITE PARACHUTE SIGNAL FLARE

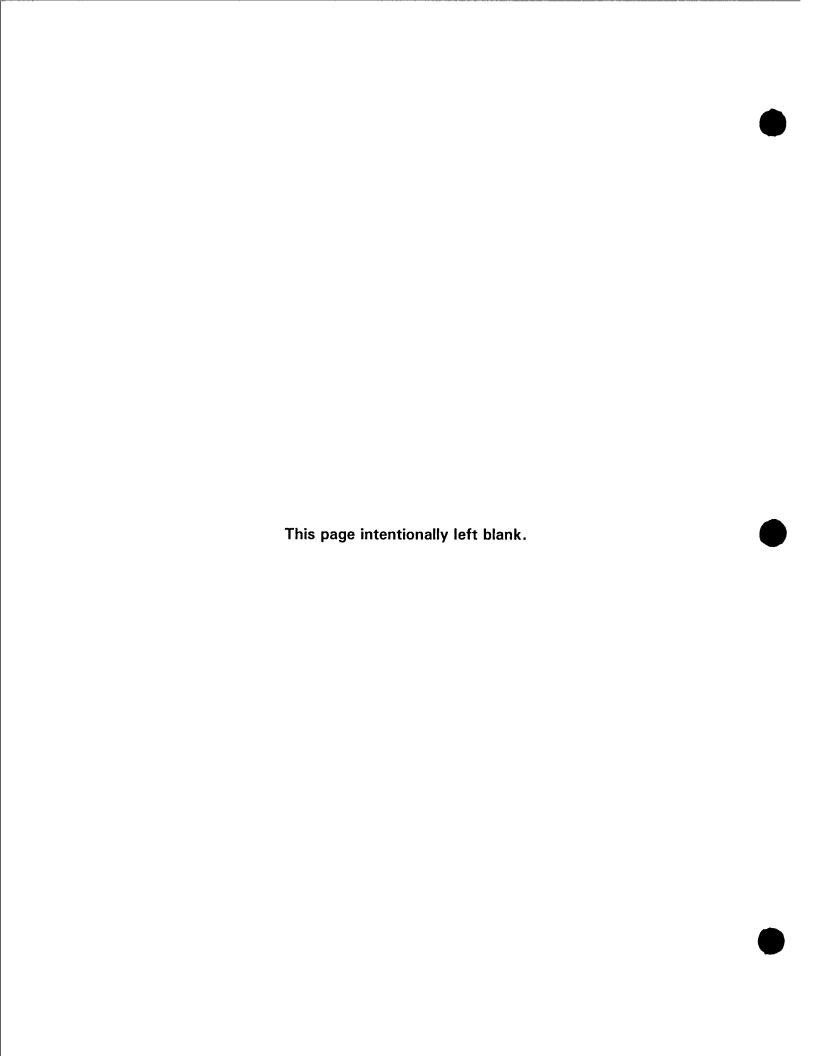


TABLE A-1. AEC MUNITION ITEM INPUT DATA SHEET (1 APRIL 1998)
Munition Item: White Parachute Signal Flare
Created by: Radian International LLC

Mar of Division		
No. of Runs =	1 1	

Sample Volumes:	Run	No. 1	Run	No. 2	Run t	Vo. 3	Average ✓
	Train A	Train B	Train A	Train B	Train A	Train B	(ft³) /
TSP	349.2	424.4	NA	NA	NA	NA	386.78
PM ₁₀	148.4	161.7	NA	NA	NA	NA	155.02
Metals	349.2	424.4	NA	NA	NA	NA	386.78
VOCs	NA						
SVOCs	69.1	59.6	NA	NA	NA	NA	64.37
HCI/CI₂	29.0	23.0	NA	NA	NA	NA	26.01
Energetics	NA						
Dioxin/Furan	75.5	73.5	NA	NA	NA	NA	74.50
Residue	NA						
CEM	NA						

Sample Volumes:	Run	No. 1	Run	No. 2	Run	No.3	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(mL)
HCI/CI ₂ (H ₂ SO ₄)	51.0	49.5	NA	NA	NA	NA	50.25
HCI/CI₂ (NaOH)	39.0	41.5	NA	NA	NA	NA	40.25

Sample Weight Gain:	Run	No. 1	Run	No. 2	Run	No. 3	Average
	Train A	Train B	목의 Train A 💖	Train B	Train A	Train B	(g)
TSP	0.9331	0.9397	NA	NA	NA	NA	0.9364
PM ₁₀	0.3170	0.3629	NA	NA	NA	NA	0.3400

Dilution Correction Factors:	Run No. 1	Run No. 2	Run No. 3	Average
TSP	0.8681	NA	NA	0.8681
PM ₁₀	0.9168	NA	NA	0.9168
Metals	0.8681	NA	NA	0.8681
VOCs	0.9104	NA	NA	0.9104
SVOCs	0.8191	NA	NA	0.8191
HCI/CI ₂	0.8191	NA	NA	0.8191
Energetics	NA	NA	NA	NA
Dioxin/Furan	0.8191	NA	NA	0.8191
Residue	NA	NA	NA	NA
CEM	0.8445	NA	NA	0.8445

	Run No. 1	Run No. 2	Run No. 3	Average
Initial Plume Volume (m³)	949.19	NA	NA	949.19
Net Explosive Weight (g)	128.23	NA	NA	128.23

TABLE A-2. AEC BACKGROUND INPUT DATA SHEET (1 APRIL 1998)
Munition Item: White Parachute Signal Flare
Created by: Radian International LLC

No. of Runs =

Sample Volumes:	WP - Bad	kground	Reage	nt Blank	Field	Blank	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(ft³)
TSP	1360.6	NA	NA	NA	NA	NA	1360.64
PM ₁₀	1008.5	NA	NA	NA	NA	NA	1008.45
Metals	1360.6	NA	NA	NA	NA	NA	1360.64
VOCs	NA	NA	NA	NA	NA	NA	NA
SVOCs	117.9	NA	NA	NA	NA	NA	117.90
HCI/CI₂	29.9	NA	NA	NA	NA	NA	29.93
Energetics	NA	NA	NA	NA	NA	NA	NA
Dioxin/Furan	156.5	NA	NA	NA	NA	NA	156.49
Residue	NA	NA	NA	NA	NA	NA	NA
CEM	NA	NA	NA	NA	NA	NA	NA

Sample Volumes:	WP - Bad	kground	Reager	nt Blank	Field	Blank	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(mL)
HCI/Cl ₂ (H ₂ SO ₄)	42.5	NA	107.2	NA	45.3	NA	42.50
HCI/Cl ₂ (NaOH)	37.0	NA	92.0	NA	41.5	NA	37.00
HCI/Cl ₂ (H ₂ O)	NA	NA	100.0	NA	NA	NA	#DIV/0!

Sample Weight Gain:	WP - Bad	kground	Reagen	t Blank	Field I	Blank	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(g)
TSP	0.0015	NA	-0.0026	NA	-0.0037	NA	0.0015
PM ₁₀	0.0027	NA	-0.0002	NA	-0.0029	NA	0.0027

TABLE A.3. AEC - TSP, PM.o. HC/JC., DIOXIN/FURAN, CO, CO., NOX, SO., AND METALS DATA EVALUATION FOR WHITE PARACHUTE SIGNAL FLARE TEST (1 APRIL 1998)

Compound	Average Concentration - Run 1, mg/m²	Average Concentration - Run 1, mg/m³	Average Background - Concentration, mg/m²	Average Maximum Detection Limit - Concentration, mg/m²	Average Minimum Detection Limit - Concentration, mg/m²	Background Evaluation Criteria	Minimum Detection Limit Evaluation Criteria	Background Evaluation Notes	Minimum Detection Limit Evaluation
O colored									
TSP	8.628E+01	8.628E+01	3.893E-02	Q	QN	2216.29	10.00	4	4
PM ₁₀	7.736E+01	7.736E+01	9.455E-02	QN	ND	818.22	10.00	A	A
Hydronen Chloride (HCD/Chlorine (CL)									
HCI	QN	QN	QN	7.694E-02	7.471E-02	QN	Q	4	L
Cl ₂	6.767E-02	6.767E-02	1.380E-02	1.711E-03	1.602E-03	4.90	42.24	C	A
Dioxin/Euran									
Dioxin TEQ (a)	5.012E-10	5.012E-10	1.512E-10	ND	ND	3.31	10.00	C	A
Consistency Manipolitical Consistency	-								
Continuous Emissions monitoring (CEM) 3V	1500	0 4 505 ,00	0 4000	2	Ç	90 0	90.04	9	<
Nitrogen Oxide (NOx)	2.135E+00	2.139E+00	1.190E-01	2 5	2 5	15.99	900	٩	₹ 4
HCI	4.143E-01	4.143E-01	4.187E-01	2	2	0.99	10.00	u.	V
Carbon Dioxide (CO ₂)	6.630E+02	6.630E+02	6.598E+02	Ð	Ð	1.00	10.00	۵	4
Sulfur Dioxide (SO ₂)	6.342E-02	6.342E-02	1.801E-03	Q	Q	35.22	10.00	A	¥
Particulate-phase Metals									
Aluminum	1.064E-02	1.064E-02	NA (b)	2.231E-03	1.932E-03	NA (b)	5.51	NA (b)	В
Antimony	7.467E-04	7.467E-04	NA (b)	3.206E-04	2.779E-04	NA (b)	2.69	NA (b)	ပ
Arsenic	9	Q	NA (b)	2.197E-04	1.907E-04	NA (b)	Q	NA (b)	щ
Barium	4.227E-02	4.227E-02	NA (b)	2.445E-05	2.120E-05	NA (b)	1993.66	NA (b)	A
Beryllium	1.897E-05	1.897E-05	NA (b)	1.359E-05	1.180E-05	NA (b)	1.61	NA (b)	۵
Cadmium	5.957E-05	5.957E-05	NA (b)	2.710E-05	2.360E-05	NA (b)	2.52	NA (b)	ပ
Chromium	3.570E-03	3.570E-03	NA (b)	4.796E-05	4.164E-05	(Q)	85.75	NA (b)	4
Copail	1.231E-04	1.231E-04	NA (b)	4.796E-05	4.164E-U5	NA (b)	5.96	NA (D)	. د
Copper	3.630E-03	3.630E-03	NA (b)	1.180E-04	1.017E-04	NA (b)	35.68	NA (b)	4
Lead	2.607E-03	2.607E-03	NA (b)	1.813E-04	1.573E-04	NA (b)	16.57	NA (b)	V
Magnesium	1.144E+01	1.144E+01	NA (b)	4.685E-04	4.070E-04	NA (b)	28100.79	NA (b)	Ą
Manganese	1.497E-02	1.497E-02	NA (b)	2.078E-05	1.804E-05	NA (b)	829.69	NA (b)	A
Nickel	4.400E-04	4.400E-04	NA (b)	7.327E-05	6.361E-05	NA (b)	6.92	NA (b)	В
Phosphorus	5.157E-03	5.157E-03	NA (b)	5.147E-04	4.471E-04	NA (b)	11.53	NA (b)	¥
Setenium	2	Q	NA (b)	1.744E-04	1.513E-04	NA (b)	Q	NA (b)	ц.
Silver	ON.	ON	NA (b)	3.257E-05	2.830E-05	NA (b)	Q	NA (b)	т.
Thallium	Q	QV	NA (b)	4.129E-04	3.582E-04	NA (b)	2	NA (b)	L.
Zinc	2.344E-03	2.344E-03	NA (b)	3.916E-04	3.403E-04	NA (b)	6.89	NA (b)	æ
Mercury	1.982E-05	1.982E-05	NA (b)	4.514E-07	4.514E-07	NA (b)	43.91	NA (D)	A

a Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD

Insufficient material to analyze

A = Identified as a contaminant (greater than or equal to 10 times background or minimum MQL)

B = Likely contaminant (less than 10 and greater than or equal to 5 times background or minimum MQL)

C = Probable contaminant (less than 5 and greater than or equal to 2 times background or minimum MQL)

D = Measured, but accuracy or presence questionable (less than 2 and greater than or equal to 1 times background or minimum MQL)

F = Not considered a contaminant (less than 1 times background or minimum MQL)

TABLE A-4. AEC - TSP, PM₁₀, HCVCI₃, DIOXIN/FURAN, CO, CO₂, NOx, SO₂, AND METALS RUN NO. 1 DATA FOR WHITE PARACHUTE SIGNAL FLARE TEST (1 APRIL 1998)

Compound	Molecular Weight	Average Concentration - Run 1, ppbv	Average Concentration - Run 1, mg/m³	Background - Concentration, mg/m [‡]	Background Corrected Concentration - Run 1, mg/m³	Dilution Correction Factor (a), %	Corrected Concentration - Run 1, mg/m³	Initial Plume Volume, ft³	Sample Total Material - Run 1, Ib	Number of Items	Corrected Emission Factor - Run 1, lb/item
Particulate			8 628E±01	3 893E-02	8 624F±01	0.8681	9.935E+01	33.520	2.079E-01	-	2.079E-01
NG.			7.736E+01	9.455E-02	7.727E+01	0.9168	8.428E+01	33,520	1.764E-01	_	1.764E-01
01.											
Hydrogen Chloride (HCI)/Chlorine (Cl ₂)											
HCI (b)	36	QN	ON	QN	ND	0.8191	QN	33,520	Q	1	2
Ct ₂ (b)	71	22.944	6.767E-02	1.380E-02	5.387E-02	0.8191	6.577E-02	33,520	1.376E-04	-	1.376E-04
Dioxin/Furan			2000	07.107.7	0 1001 0	0 0404	A 272E 40	22 520	9 0475.12	-	8 042E-13
Dioxin TEO (c)		•	5.01ZE-10	1.512E-10	3.500E-10	0.6191	4.27.35-10	33,320	0.3425-13	-	0.34213
Constitution of the consti	, and a second										
Continuous Emissions monitoring (CEM) 3	20	1952 246	2 1505.00	2 100E.01	1 940E±00	0 8445	2 297F±00	33.520	4.807E-03	-	4.807E-03
Nitrogen Oxide (NOx)	46	1393.578	2.153E+00	1.668E-01	2.500E+00	0.8445	2.960E+00	33,520	6.195E-03	-	6.195E-03
HCI(h)	36	276.610	4.143E-01	4.187E-01	-4.482E-03	0.8445	2	33,520	QV	-	QN
Carbon Dioxide (CO ₂)	44	362189.800	6.630E+02	6.598E+02	3.108E+00	0.8445	3.681E+00	33,520	7.702E-03	1	7.702E-03
Sulfur Dioxide (SO ₂)	2	23.819	6.342E-02	1.801E-03	6.161E-02	0.8445	7.296E-02	33,520	1.527E-04	1	1.527E-04
Particulate-phase Metals											
Aluminum	27	9.476	1.064E-02	(b) AN	1.064E-02	0.8681	1.226E-02	33,520	2.566E-05	-	2.566E-05
Antimony	122	0.147	7.467E-04	(d) AN	7.467E-04	0.8681	8.601E-04	33,520	1.800E-06	_	1.800E-06
Arsenic	75	QV	QN	(d) AN	QN	0.8681	QN	33,520	Q	-	Q
Barium	137	7.417	4.227E-02	(d) AN	4.227E-02	0.8681	4.869E-02	33,520	1.019E-04	-	1.019E-04
Beryllium	6	0.051	1.897E-05	(d)	1.897E-05	0.8681	2.185E-05	33,520	4.573E-08	-	4.573E-08
Cadmium	112	0.013	5.957E-05	NA (d)	5.957E-05	0.8681	6.862E-05	33,520	1.436E-07	-	1.436E-07
Chromium	52	1.651	3.570E-03	NA (d)	3.570E-03	0.8681	4.113E-03	33,520	8.607E-06	-	8.607E-06
Cobalt	59	0.050	1.231E-04	NA (d)	1.231E-04	0.8681	1.418E-04	33,520	2.967E-07	1	2.967E-07
Conner	2	1.363	3.630E-03	NA (d)	3.630E-03	0.8681	4.181E-03	33,520	8.750E-06	1	8.750E-06
ead	207	0.303	2.607E-03	NA (d)	2.607E-03	0.8681	3.003E-03	33,520	6.285E-06	1	6.285E-06
Magnesium	24	11454,365	1.144E+01	(D) AN	1.144E+01	0.8681	1.317E+01	33,520	2.757E-02	1	2.757E-02
Manganese	55	6.542	1.497E-02	NA (d)	1.497E-02	0.8681	1.724E-02	33,520	3.608E-05	-	3.608E-05
le XCIN	59	0.179	4.400E-04	NA (d)	4.400E-04	0.8681	5.069E-04	33,520	1.061E-06	-	1.061E-06
Phosphonis	3	3,999	5.157E-03	NA (d)	5.157E-03	0.8681	5.941E-03	33,520	1.243E-05	-	1.243E-05
Selenium	79	QN	2	NA (d)	Q	0.8681	Q	33,520	QN	1	QN
Silver	108	S	QN	NA (d)	Q	0.8681	Q	33,520	QN	1	QN
hallium	204	QN	QN	NA (d)	Q	0.8681	QN	33,520	QN	+	Q
inc	65	0.867	2.344E-03	NA (d)	2.344E-03	0.8681	2.700E-03	33,520	5.649E-06	-	5.649E-06
Mercin	201	2000	1 9825-05	(D) AN	1 982F-05	0.8681	2.283E-05	33.520	4.778E-08	_	4.778E-08

a Estimated from tracer data as presented in Volume IV. b HCLCl₂ levels were too low to be reliably measured.

c Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD. Presence questionable - reported at similar levels in samples and blanks.
d
insufficient material to analyze.

TABLE A-5. AEC - VOC DATA EVALUATION FOR WHITE PARACHUTE SIGNAL FLARE TEST (1 APRIL 1998)

Compound (a)	Average Concentration - Run 1, mg/m³	Average Concentration -	Average Background - Concentration, mg/m³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³	Background Evaluation Criteria	Minimum Detection Limit Evaluation Criteria	Background Evaluation Notes	Minimum Detection Limit Evaluation Notes
Total Nonmethane Hydrocarbons (TNMHC)									
TNMHC	1.344E-01	1.344E-01	9.740E-02	1.000E-04	1.000E-04	1.38	1343.50	٥	A
Volatile Organic Compounds (VOCs)									
Ethane	4.000E-03	4.000E-03	3.100E-03	1.000E-04	1.000E-04	1.29	40.00	٥	A
Ethylene	1.195E-02	1.195E-02	2.800E-03	1.000E-04	1.000E-04	4.27	119.50	O	4
Acetylene	7.300E-03	7.300E-03	4.500E-03	1.000E-04	1.000E-04	1.62	73.00	D	A
Propane	1.750E-03	1.750E-03	1.500E-03	1.000E-04	1.000E-04	1.17	17.50	۵	A
Propene	4.500E-03	4.500E-03	1.300E-03	1.000E-04	1.000E-04	3.46	45.00	ပ	¥
I-Butane	3.800E-03	3.800E-03	3.400E-03	1.000E-04	1.000E-04	1.12	38.00	O	A
i-Butene	8.500E-04	8.500E-04	5.000E-04	1.000E-04	1.000E-04	1.70	8.50	0	В
1-Butene	7.500E-04	7.500E-04	2.000E-04	1.000E-04	1.000E-04	3.75	7.50	S	8
1,3-Butadiene	7.500E-04	7.500E-04	2.000E-04	1.000E-04	1.000E-04	3.75	7.50	S	80
n-Butane	1.650E-03	1.650E-03	1.800E-03	1.000E-04	1.000E-04	0.92	16.50	ட	A
Irans-2-Butene	1.150E-03	1.150E-03	2.000E-04	1.000E-04	1.000E-04	5.75	11.50	В	Ą
z,z-Umetnyipropane	ON O	ON ISS	QN	1.000E-04	1.000E-04	QN	Q	Ь	ш
cis-z-burene	2.000E-04	2.000E-04	1.000E-04	1.000E-04	1.000E-04	2.00	2.00	O	ပ
S-memyl-1-butene	1.000E-04	1.000E-04	1.000E-04	1.000E-04	1.000E-04	1.00	1.00	Ω	۵
1-Pentane	3.500E-03	3.500E-03	3.800E-03	1.000E-04	1.000E-04	0.92	35.00	ш	4
i-rentene	2.000E-04	2.000E-04	1.000E-04	1.000E-04	1.000E-04	2.00	2.00	ပ	ပ
z-metnyi-1-butene	2.500E-04	2.500E-04	1.000E-04	1.000E-04	1.000E-04	2.50	2.50	O	ပ
n-rentane	2.850E-03	2.850E-03	3.200E-03	1.000E-04	1.000E-04	0.89	28.50	L.	A
Isoprene	ON LOS	ON S	1.000E-04	1.000E-04	1.000E-04	Q	Q	ш	ட
irans-z-rentene	2.000E-04	2.000E-04	1.000E-04	1.000E-04	1.000E-04	2.00	2.00	O	O
cis-z-rentene	2	Q !	1.000E-04	1.000E-04	1.000E-04	Q	Q	ட	ш.
Z-metnyl-z-butene	ON .	QN	2.000E-04	1.000E-04	1.000E-04	Q	Q	Ц.	Щ
z,z-Umetnylbutane	4.000E-04	4.000E-04	4.000E-04	1.000E-04	1.000E-04	1.00	4.00	٥	ပ
Cyclopentene	2	2	Q.	1.000E-04	1.000E-04	2	2	ட	Щ
4-Methyr-1-pentene	ON CO	ON S	ON	1.000E-04	1.000E-04	Q	9	ட	щ
Oyclobeniane	2.000E-04	2.000E-04	3.000E-04	1.000E-04	1.000E-04	0.67	2.00	ш	ပ
cis-4-Mathyl 2-pontono	1.05UE-U3	1.050E-03	1.100E-03	1.000E-04	1.000E-04	0.95	10.50	u	V
2-Mathylpentana	00 E00 C	2000	ND SOOP	1.000E-04	1.000E-04	28	ON	-	_
3-Methylnentane	2 000E-03	2.000E-03	4.000E-03	1.000E-04	1.000E-04	0,70	28.00		4
2-Methyl-1-pentene	S CN	L CIN	AID AID	1.000E-04	1.000E-04	2 4	20.0	١ ا	اد
1-Heyene	3 000E-04	2000	2 2	1.0001	1.000 -0+	2 5			-
- Hexane	3.000E-04	3.000E-04	ND SOOT	1.000E-04	1.000E-04	20.00	3.00	۷ŀ	٥,
tropic o Hoveno	6.000L-03	2.000E-U3	Z.900E-03	1.000E-04	1.000E-04	0.97	28.00	1	A
2 Mothyl 2 pontono	2 2	2	1.000E-04	1.000E-04	1.000E-04	9	9	ц.	ш
on a House	2	2	1.000E-04	1.000E-04	1.000E-04	9	2	L	ш
Moth: Coolong and	ON LOCAL	ON S	1.000E-04	1.000E-04	1.000E-04	2	2	ш	ıL
Metriyicycloperiarie	1.300E-03	1.300E-03	1.200E-03	1.000E-04	1.000E-04	1.08	13.00	۵	A
z,4-Umemypemane	Z.000E-03	Z.000E-03	1.400E-03	1.000E-04	1.000E-04	1.43	20.00	Ω	A
								<u> </u>	

TABLE A-5. AEC - VOC DATA EVALUATION FOR WHITE PARACHUTE SIGNAL FLARE TEST (1 APRIL 1998)

	Average Concentration -	Average Concentration -	Average Background - Concentration,	Average Maximum Detection Limit - Concentration,	Average Minimum Detection Limit - Concentration,	Background Evaluation	Minimum Detection Limit Evaluation	Background Evaluation	Minimum Detection Limit Evaluation
Compound (a)	Run 1, mg/m*	Run 1, mg/m"	mg/m,	mg/m,	mg/m	Criteria	Criteria	Notes	Notes
Benzene	7.500E-03	7.500E-03	3.400E-03	1.000E-04	1.000E-04	2.21	75.00	۱ د	₹
Cyclohexane	8.000E-04	8.000E-04	1.000E-03	1.000E-04	1.000E-04	0.80	8.00	۲	20
2-Methylhexane	1.150E-03	1.150E-03	1.100E-03	1.000E-04	1.000E-04	50.7	00 as		<
2,3-Uimethylpentane	3.800E-03	3.800E-03	3.000E-03	1.000E-04	1.000E-04	80.0	13.00	2 4	A
3-Metnyinexane	7 2505 03	1.300E-03	1.400E-03	1.000E-04	1.000E-04	0.90	73.50	. ш	\ \ \
Z,Z,4-1 rimetnyipentane	1 1000 03	1 100E-03	1 100E-03	1.000E-04	1 000E-04	60.	11.00		A
n-Heptane 2.4.4-Trimethyl-1-pentene	ND ND	ND -ND	ND ND	1.000E-04	1.000E-04	QN	QN	ı	L
Methylcyclohexane	7.000E-04	7.000E-04	8.000E-04	1.000E-04	1.000E-04	0.88	7.00	ш	8
2.4.4-Trimethyl-2-pentene	Q	QN	QN	1.000E-04	1.000E-04	QN	QN	Ь	L
2.5-Dimethylhexane	5.000E-04	5.000E-04	5.000E-04	1.000E-04	1.000E-04	1.00	2:00	D	8
2,4-Dimethylhexane	8.000E-04	8.000E-04	8.000E-04	1.000E-04	1.000E-04	1.00	8.00	D	8
2,3,4-Trimethylpentane	1.600E-03	1.600E-03	1.600E-03	1.000E-04	1.000E-04	1.00	16.00	D	A
Toluene	8.550E-03	8.550E-03	7.800E-03	1.000E-04	1.000E-04	1.10	85.50	D	A
2,3-Dimethylhexane	6.000E-04	6.000E-04	5.000E-04	1.000E-04	1.000E-04	1.20	90.9	٥	В
2-Methylheptane	3.500E-04	3.500E-04	3.000E-04	1.000E-04	1.000E-04	1.17	3.50	D	ပ
3-Ethylhexane	ON	ND	ND	1.000E-04	1.000E-04	QN	Q	T.	ш
2,2-Dimethylheptane	ON	ON	ND	1.000E-04	1.000E-04	ND	QN	щ	L.
2,2,4-Trimethylhexane	4.000E-04	4.000E-04	4.000E-04	1.000E-04	1.000E-04	1.00	4.00	۵	ပ
n-Octane	3.000E-04	3.000E-04	3.000E-04	1.000E-04	1.000E-04	1.00	3.00	٥	ပ
Ethylcyclohexane	QN	ON	ON	1.000E-04	1.000E-04	Q	QN	ш	u.
Ethylbenzene	1.050E-03	1.050E-03	8.000E-04	1.000E-04	1.000E-04	1.31	10.50	٥	V
m-Xylene & p-Xylene	3.950E-03	3.950E-03	3.500E-03	1.000E-04	1.000E-04	1.13	39.50	٥	A
Styrene	6.500E-04	6.500E-04	5.000E-04	1.000E-04	1.000E-04	1.30	6.50	٥	8
o-Xylene	1.350E-03	1.350E-03	1.100E-03	1.000E-04	1.000E-04	1.23	13.50	٥	A
n-Nonane	3.000E-04	3.000E-04	1.000E-04	1.000E-04	1.000E-04	3.00	3.00	O	ပ
i-Propylbenzene	QN	ON	ND	1.000E-04	1.000E-04	ND	QN	Œ.	L.
n-Propylbenzene	3.000E-04	3.000E-04	2.000E-04	1.000E-04	1.000E-04	1.50	3.00	٥	S
p-Ethyltoluene	8.500E-04	8.500E-04	7.000E-04	1.000E-04	1.000E-04	1.21	8.50	٥	B (
m-Ethyltoluene	4.500E-04	4.500E-04	3.000E-04	1.000E-04	1.000E-04	1.50	4.50	٥	ن ا
1,3,5-Trimethylbenzene	4.500E-04	4.500E-04	4.000E-04	1.000E-04	1.000E-04	1.13	4.50	٥	٥
o-Ethyltoluene	4.000E-04	4.000E-04	2.000E-04	1.000E-04	1.000E-04	2.00	4.00	၁	0
1.2.4-Trimethylbenzene & sec-Butylbenzene	1.200E-03	1.200E-03	1.000E-03	1.000E-04	1.000E-04	1.20	12.00	٥	۷
n-Decane	2.500E-04	2.500E-04	1.000E-04	1.000E-04	1.000E-04	2.50	2.50	၁	၁
alpha-Pinene	QN	QN	QN	1.000E-04	1.000E-04	ND	QN	F	Ŀ
beta-Pinene	QN	QN	QN	1.000E-04	1.000E-04	ND	ΩN	ட	ш
delta 3-Carene	QN	QN	Q	1.000E-04	1.000E-04	ND	QN	F	Т
d-Limonene	ON	QN	ND	1.000E-04	1.000E-04	NO	Q	ш	ட
MTBE	1.800E-03	1.800E-03	1.800E-03	1.000E-04	1.000E-04	1.00	18.00	D	A
ETBE	Q	Q	ND	1.000E-04	1.000E-04	Q	Q	L.	L (
Dichlorodifluoromethane	1.815E-03	1.815E-03	1.432E-03	4.992E-04	4.992E-04	1.27	3.64	۵	<u>ب</u> ا د
givernyichiotoe	ON.	ON	2	4.000E-04	4.000L-04	2	2		

TABLE A-5. AEC - VOC DATA EVALUATION FOR WHITE PARACHUTE SIGNAL FLARE TEST (1 APRIL 1998)

Dichlorotetrafluoroethane	Average Concentration - Run 1, mg/m³	Average Concentration - Run 1, mg/m³	Average Background - Concentration, mg/m³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³	Background Evaluation Criteria	Minimum Detection Limit Evaluation Criteria	Background Evaluation Notes	Minimum Detection Limit Evaluation Notes
	ON	QN	ON	7.114E-04	7.114E-04	ND	QN	Ł	L
Chloroethene	ND	QN	QN	2.621E-04	2.621E-04	QN	QN	ш	L
1,3-Butadiene	7.628E-04	7.628E-04	2.034E-04	2.246E-04	2.246E-04	3.75	3.40	ပ	ပ
Methylbromide	ND	QN	ND	3.952E-04	3.952E-04	ND	QN	ட	iL.
Ethylchloride	ND	QN	ND	2.683E-04	2.683E-04	ND	ON	4	ш
Trichloromonofluoromethane	2.580E-03	2.580E-03	2.612E-03	5.699E-04	5.699E-04	66.0	4.53	ш	ပ
Vinylidenechloride	ON	QN	ON	4.035E-04	4.035E-04	Q	2	ட	ш
Methylenechloride	3.336E-03	3.336E-03	1.287E-03	3.536E-04	3.536E-04	2.59	9.43	O	æ
Allylchloride	S N	QN	QN	3.182E-04	3.182E-04	Q	2	ш.	LL
1,1,2-Trichloro-1,2,2-trifluoroethane	8.791E-04	8.791E-04	8.801E-04	7.821E-04	7.821E-04	100	1.12	. L	2
1,1-Dichloroethane	2	2	Q S	4.118E-04	4.118E-04	2 2	2 9		_ - -
1,2-Uichloroethene	Q	2	ON I	4.035E-04	4.035E-04	2 5	2 5	-	-
Chloroform	ND	Q	QN	4.950E-04	4.950E-04	Q	2	4	<u>.</u>
1,2-Dichloroethane	N N	S	QN	4.118E-04	4.118E-04	Q	2	ш	щ
Methylchloroform	3.886E-04	3.886E-04	3.547E-04	5.533E-04	5.533E-04	1.10	0.70	۵	щ
Benzene	7.628E-03	7.628E-03	3.458E-03	3.245E-04	3.245E-04	2.21	23.51	O	A
Carbontetrachloride	8.334E-04	8.334E-04	7.438E-04	6.406E-04	6.406E-04	1.12	1.30	۵	۵
1,2-Dichloropropane	S	Q	QN	4.701E-04	4.701E-04	9	9	ш	ட
Trichloroethylene	Q.	Q	Q	5.533E-04	5.533E-04	Q	9	ш	ட
cis 1,3-Dichloro-1-propene	Q	Q	QN	4.618E-04	4.618E-04	Q	Q	4	4
trans 1,3-Dichloro-1-propene	Q	2	Q	4.618E-04	4.618E-04	Q	2	ш	ш
1,1,2-Trichloroethane	ND	Q	Q	5.533E-04	5.533E-04	Q	Q	ட	ш
Toluene	8.696E-03	8.696E-03	7.934E-03	3.827E-04	3.827E-04	1.10	22.72	۵	A
1,2-Dibromoethane	Q	Q	QN	7.821E-04	7.821E-04	Q	2	ш	ш
Perchloroethylene	Q	Q.	Q	6.906E-04	6.906E-04	Q	Q	ш	ட
Chlorobenzene	ND	Q	QN	4.701E-04	4.701E-04	Q	Q	ш	щ
Ethylbenzene	1.612E-03	1.612E-03	1.228E-03	6.656E-04	6.656E-04	1.31	2.42	٥	ပ
m&p-Xylene	3.607E-03	3.607E-03	3.585E-03	4.410E-04	4.410E-04	1.01	8.48	۵	6
Styrene	Z. 194E-04	Z.194E-04	2 2	4.326E-04	4.326E-04	00.00	10.01	۲	- L
1,1,2,2-1 etrachiologinarie	1ND	1 2725 00	ND 44.4	0.9096-04	0.909E-04	287	ON C		۱ (
D-Cylene D-Ethyltoniana	5 570E-03	5.570E.04	F 804E 04	4.410E-04	4.4.10E-04	23.0	4 45	2	
1.3.5-Trimethylbenzene	2.870E-04	2.870E-04	2.845F-04	4 992F-04	4 992F-04	101	0.57	- 0	ı u
1.2.4-Trimethylbenzene	9.466E-04	9.466E-04	9.399E-04	4 992E-04	4 992E-04	1.01	1.90	٥	
Benzylchloride	Q	Q	QN	5.283E-04	5.283E-04	Q	2	L	ı
m-Dichlorobenzene	9	Q.	QN	6.115E-04	6.115E-04	Q	Q	L	L
p-Dichlorobenzene	QV	Q	QN	6.115E-04	6.115E-04	Q	2	ш	ı
o-Dichlorobenzene	NO	QN	ND	6.115E-04	6.115E-04	ND	QN	L.	ட
1,2,4-Trichlorobenzene	ND	ON	QN	7.530E-04	7.530E-04	ND	QN	ı.	ъ.
Hexachlorobutadiene	Q	QN	ON	1.086E-03	1.086E-03	QN	Q	L	ų.
Phenylacetylene	QN	ON	QN	4.243E-04	4.243E-04	QN	QN	ıL	ш.
Indane	ND	QN	QN	4.909E-04	4.909E-04	QN	QN	L	ш
2,3-Dihydro-1-methyl-1H-indene	Q	QN	S	5.491E-04	5.491E-04	2	₽.	ш	L

TABLE A-5. AEC - VOC DATA EVALUATION FOR WHITE PARACHUTE SIGNAL FLARE TEST (1 APRIL 1998)

	Average	Average	Average Background -	Average Maximum Detection Limit -	Average Minimum Detection Limit -	Background	Minimum Detection Limit	Background	Minimum Detection Limit
Compound (a)	Concentration - Run 1, mg/m³	Concentration - Run 1, mg/m³	Concentration, mg/m³	Concentration, mg/m³	Concentration, mg/m³	Evaluation Criteria	Evaluation Criteria	Evaluation Notes	Evaluation Notes
2,3-Dihydro-4-methyl-1H-indene	QN	QN	QN	5.491E-04	5.491E-04	QN	QN	Ł	ш
Naphthalene	9.064E-04	9.064E-04	4.279E-04	5.325E-04	5.325E-04	2.12	1.70	ပ	D
2-Methylnaphthalene	Q	QN	QN	5.907E-04	5.907E-04	ND	QN	F	IL.
1-Methylnaphthalene	Q	QN	QN	5.907E-04	5.907E-04	ND	QN	F	T.
Cyanogen	ON	QN	QN	2.163E-04	2.163E-04	ND	QN	1	F
Methylnitrite	4.281E-04	4.281E-04	ND	2.538E-04	2.538E-04	10.00	1.69	A	٥
Acetonitrile	7.547E-04	7.547E-04	QN	1.706E-04	1.706E-04	10.00	4.42	A	၁
Acrylonitrile	8.593E-04	8.593E-04	GN	2.205E-04	2.205E-04	10.00	3.90	A	ပ
Nitromethane	8.485E-04	8.485E-04	, ON	2.538E-04	2.538E-04	10.00	3.34	٧	O
Propanenitrile	ON	ON	QN	2.288E-04	2.288E-04	QN	Q	ட	ட
2-Methylpropanenitrile	QN	QN	QN	2.870E-04	2.870E-04	ON	QN	ட	L.
Pentanenitrile	ON	ND	QN .	3.453E-04	3.453E-04	QN	Q	ட	ட
Hexanenitrile	QN	QN	QN	4.035E-04	4.035E-04	ND	ON	щ	ц
Benzonitrile	3.458E-04	3.458E-04	ON	4.285E-04	4.285E-04	10.00	0.81	Α	ட
2-Nitrophenol	QN	QN	QN	5.782E-04	5.782E-04	ND	ON	Ŧ	ı.
Acrolein	5.040E-04	5.040E-04	QN	2.330E-04	2.330E-04	10.00	2.16	A	ပ
Acetone	1.063E-02	1.063E-02	8.348E-03	2.330E-04	2.330E-04	1.27	45.64	D	Α
1-Hydroxy-2-propanone	QN	QN	QN	3.078E-04	3.078E-04	ND	ON	F	ıL
Furan	1.599E-04	1.599E-04	ON	2.829E-04	2.829E-04	10.00	0.57	¥	ட
2-Propanol	QN	QN	ON	2.496E-04	2.496E-04	ND	QN	ш	ட
2-Methylpropanal	QN	ON	ON	3.078E-04	3.078E-04	QN	QN	ட	L.
1-Propanol	Q	Q	Q	2.496E-04	2.496E-04	QN	QN	ш	ட
Methacrolein	QV	QN	ND	2.912E-04	2.912E-04	ND	QQ	L	щ
Methyl-vinyl Ketone	QN	QN	QN	2.912E-04	2.912E-04	ND	QN	ւ	ı.
MTBE	1.734E-03	1.734E-03	1.677E-03	3.661E-04	3.661E-04	1.03	4.74	۵	ပ
2,3-Butanedione	Q	Q	ND	3.578E-04	3.578E-04	QN	QN	ш	ш
Butanal	QN	QN	3.764E-04	2.995E-04	2.995E-04	ND	QN	Ŧ	т
2-Butanone	1.882E-03	1.882E-03	1.053E-03	2.995E-04	2.995E-04	1.79	6.28	اٍ ۵	ω ι
2-Methyl-1,3-dioxolane	ON S	2	ON	3.661E-04	3.661E-04	2	2	L	1
Tetrahudrafiran	2 2	S	ON CIV	3.411E-04	3.411E-04	2 2	2 2	L	L
trans, 2. Butanal	1 8215-04	1 821E-04		2 0125-04	2 0125-04	200	590		- u
Acetic Acid	1.453E-03	1.453E-03	1.211E-03	2.496E-04	2.496E-04	1.20	5.82	۵	. @
1-Butanol	Q.	QN	QN	3.078E-04	3.078E-04	QN	Q	L	ш
2-Pentanone	5.631E-04	5.631E-04	QN	3.578E-04	3.578E-04	10.00	1.57	4	٥
Pentanal	8.153E-04	8.153E-04	1.785E-03	3.578E-04	3.578E-04	0.46	2.28	ш	O
1,4-Dioxane	ON	QN	QN	3.661E-04	3.661E-04	ND	QN	F	ய
Methyl Methacrylate	QN	QN	QN	4.160E-04	4.160E-04	ND	QN	F	ш
Cyclopentanone	QN	QN	QN	3.494E-04	3.494E-04	ND	QN	Œ.	L
Hexanal	9.454E-04	9.454E-04	1.397E-03	4.160E-04	4.160E-04	0.68	2.27	ш	O
2-Furaldehyde	2.995E-04	2.995E-04	QN	3.994E-04	3.994E-04	10.00	0.75	٧	L
Cyclohexanone	Q	QV	ON	4.077E-04	4.077E-04	ND	Q	ш	ш
Heptanal	7.979E-04	7.979E-04	7.488E-04	4.742E-04	4.742E-04	1.07	1.68	٥	D

TABLE A-5. AEC - VOC DATA EVALUATION FOR WHITE PARACHUTE SIGNAL FLARE TEST (1 APRIL 1998)

Compound (a)	Average Concentration - Run 1. mo/m²	Average Concentration - Run 1. mg/m³	Average Background - Concentration, mg/m²	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³	Background Evaluation Criteria	Minimum Detection Limit Evaluation Criteria	Background Evaluation Notes	Minimum Detection Limit Evaluation Notes
2-Butoxvethanol	QN	ND	QN	4.909E-04	4.909E-04	ND	ON	F	Ł
Benzaldehyde	1.870E-03	1.870E-03	8.702E-04	4.410E-04	4.410E-04	2.15	4.24	၁	ပ
6-Methyl-5-heoten-2-one	2	QN	9.276E-04	5.242E-04	5.242E-04	QN	QN	F	L.
Octanal	1.915E-03	1.915E-03	1.799E-03	5.325E-04	5.325E-04	1.06	3.60	O	ပ
Benzofiran	2	QN	QN	4.909E-04	4.909E-04	QN	QN	tL.	T.
2-Fthvi-1-hexanol	2	QN	Q	4.992E-04	4.992E-04	QN	ON	4	u.
Acetophonone	3.121E-04	3.121E-04	QN	4.992E-04	4.992E-04	10.00	0.63	A	Œ.
Nonanal	2.796E-03	2.796E-03	2.754E-03	5.907E-04	5.907E-04	1.02	4.73	D	O
Decanal	1.863E-03	1.863E-03	1.907E-03	6.490E-04	6.490E-04	0.98	2.87	ш.	O
Carbonyl Sulfide	2.983E-04	2.983E-04	1.934E-04	2.496E-04	2.496E-04	1.54	1.20	D	Ω
Carbon Disulfide	9.263E-03	9.263E-03	5.646E-04	3.162E-04	3.162E-04	16.41	29.30	A	A
Thiophene	2.820E-04	2.820E-04	QV	3.494E-04	3.494E-04	10.00	0.81	¥	щ
Dimethyldisulfide	QN	QN	QN	3.910E-04	3.910E-04	QN	QN	ш	F

a Compounds in bold represent duplicate values.

TABLE A-6. AEC - VOC RUN NO. 1 DATA FOR WHITE PARACHUTE SIGNAL FLARE TEST (1 APRIL 1998)

Compound (a)	Molecular Welobt	Average Concentration - Bun 1. poby	Average Concentration - Run 1. mg/m³	Background - Concentration, ma/m³	Background Corrected Concentration -	Dilution Correction Factor (b).%	Corrected Concentration - Run 1. mg/m³	Initial Plume Volume, ft²	Sample Total Material - Run 1. ib	Number of Items	Corrected Emission Factor - Run
Total Nonmethane Hydrocarbons (TNMHC) TNMHC			1.344E-01	9.740E-02	3.695E-02	0.9104	4.059E-02	33,520	8.493E-05	-	8.493E-05
(Volatile Organic Compounds (VOCs)	3	1000		L	L				L		00000
Ethane	88	3.205	4.000E-03	3.100E-03	9.000E-04	0.9104	9.886E-04	33,520	2.069E-06	-	2.069E-06
Cunyene	907	6.746	7 2005 02	Z.800E-03	9.150E-03	0.9104	3.0755.02	33,320	2.103E-05	-	2.103E-05
Propage	20	0.749	1.300E-03	4.500E-03	2.800E-03	0.9104	3.076E-03	33,320	6.430E-00	-	5 7465-07
Propene	42	2.576	4.500E-03	1.300E-03	3.200E-03	0.9104	3.515F-03	33,520	7.355F-06	-	7.355E-06
i-Butane	58	1.575	3.800E-03	3.400E-03	4.000E-04	0.9104	4.394E-04	33,520	9.194E-07	_	9.194E-07
i-Butene	56	0.365	8.500E-04	5.000E-04	3.500E-04	0.9104	3.844E-04	33,520	8.045E-07	-	8.045E-07
1-Butene	99	0.322	7.500E-04	2.000E-04	5.500E-04	0.9104	6.041E-04	33,520	1.264E-06	1	1.264E-06
1,3-Butadiene	54	0.334	7.500E-04	2.000E-04	5.500E-04	0.9104	6.041E-04	33,520	1.264E-06	-	1.264E-06
n-Butane	58	0.684	1.650E-03	1.800E-03	-1.500E-04	0.9104	QN	33,520	QN	+	Q
trans-2-Butene	56	0.494	1.150E-03	2.000E-04	9.500E-04	0.9104	1.043E-03	33,520	2.184E-06	_	2.184E-06
2.2-Dimethylpropane	72	QN	Q	Q	Q	0.9104	Q	33,520	2	-	Q
cis-2-Butene	56	0.086	2.000E-04	1.000E-04	1.000E-04	0.9104	1.098E-04	33,520	2.299E-07	_	2.299E-07
3-Methyl-1-butene	0/	0.034	1.000E-04	1.000E-04	0.000E+00	0.9104	0.000E+00	33,520	0.000E+00		0.000E+00
I-Pentane	7/5	60.0	3.500E-03	3.800E-03	-3.000E-04	0.9104	NO 1 2001 S.	33,520	ON 1999		ON LOS
2 Mothed 1 Europe	0/2	0.009	2.0005.04	1.000E-04	1.000E-04	0.9104	1.0985-04	33,520	2.299E-07	- ,	2.299E-07
p. Destand	2,5	0.000	2 0505 03	2 200E 04	+0-10001 c	0.9104	1.040E-04	33,320	3.4405-0/		3.4460-07
Isoprene	89	ON	ON ON	1 000F-04	NO NO	10.00	S G	33,520	2 5	-	2 5
trans-2-Pentene	20	690.0	2.000E-04	1.000E-04	1.000E-04	0.9104	1.098E-04	33,520	2.299E-07	-	2.299E-07
cis-2-Pentene	20	QN	QN	1.000E-04	QN	0.9104	QN	33,520	QV	-	QV
2-Methyl-2-butene	70	QN	QN	2.000E-04	QN	0.9104	QN	33,520	ON	-	QN
2,2-Dimethylbutane	98	0.112	4.000E-04	4.000E-04	0.000E+00	0.9104	0.000E+00	33,520	0.000E+00	-	0.000E+00
Cyclopentene	80 3	2 2	2	Q.	Q !	0.9104	ON.	33,520	2		2
Gyclopantana	84	ON O	ND NO.	ND	NO POOL	0.9104	2 2	33,520	2 2		2 2
2.3-Dimethylbutane	98	0.293	1.050E-03	1.100E-03	-5.000E-05	0.9104	S	33,520	2 2	-	2 5
cis-4-Methyl-2-pentene	84	Q	Q	S	QN	0.9104	Q.	33,520	2	-	2
2-Methylpentane	98	0.783	2.800E-03	4.000E-03	-1.200E-03	0.9104	NO	33,520	QN	1	QV
3-Methylpentane	98	0.056	2.000E-04	2.000E-03	-1.800E-03	0.9104	QN	33,520	Q	-	ON
2-Methyl-1-pentene	84	Q	Q	Q	Q	0.9104	Q	33,520	Q	-	Q
1-Hexene	84	0.086	3.000E-04	ON SOLUTION	3.000E-04	0.9104	3.295E-04	33,520	6.896E-07		6.896E-07
Franc 2 Hovers	00	0.703	2.000E-03	4.000E-03	-1.000:1-	0.9104	2	33,320	2 2	- ,	2
2-Methyl-2-nentane	18	2 5	2 5	1,000	2 2	0.9104	2 2	33,520	2 2	-	2 2
cis-2-Hexene	2 2	Q	S	1 000F-04	2 5	10100	2 2	33,520	2 2	-	2 2
Methylcyclopentane	8	0.372	1.300E-03	1.200E-03	1 000E-04	0.9104	1.098E-04	33.520	2.299E-07		2 299E-07
2,4-Dimethylpentane	100	0.481	2.000E-03	1.400E-03	6.000E-04	0.9104	6.591E-04	33,520	1.379E-06	-	1.379E-06
Вепzепе	78	2.311	7.500E-03	3.400E-03	4.100E-03	0.9104	4.504E-03	33,520	9.424E-06	-	9.424E-06
Cyclohexane	84	0.229	8.000E-04	1.000E-03	-2.000E-04	0.9104	QN	33,520	QN	1	Q
2-Methylhexane	8	0.276	1.150E-03	1.100E-03	5.000E-05	0.9104	5.492E-05	33,520	1.149E-07	-	1.149E-07
2,3-Umethylpentane	8 5	0.913	3.800E-03	3.800E-03	0.000E+00	0.9104	0.000E+00	33,520	0.000E+00	-	0.000E+00
2.2.4-Trimethylpentane	317	1.550	1.300E-03	7.400E-03	-1.000E-04	0.9104	2 2	33,520	2 2	-	2 2
				20 - 200- 1	2000			035000			2

TABLE A-6. AEC - VOC RUN NO. 1 DATA FOR WHITE PARACHUTE SIGNAL FLARE TEST (1 APRIL 1998)

	3.3.	Average	Aversoe	Background •	Background	Dilition	Corrected		Sample Total		Corrected
	Molecular	Concentration -		Concentration,	Concentration -	Correction	Concentration -	Initial Plume	Material - Run	Number of	Factor - Run
Compound (a)	weignt	orun 1, ppov	1 100E-03	1 100E-03	0.0000	0.9104	0.000F+00	33 520	0.000E+00	-	0,000E+00
2 4 4-Trimethyl-1-pentene	115	QN	QN	QN	QN	0.9104	QN	33,520	QN	-	QN
Methylcyclohexane	86	0.172	7.000E-04	8.000E-04	-1.000E-04	0.9104	QN	33,520	QN	-	QN
2,4,4-Trimethyl-2-pentene	112	QN	QN	QN	QN	0.9104	QN	33,520	QN	-	QN
2,5-Dimethylhexane	114	0.105	5.000E-04	5.000E-04	0.000E+00	0.9104	0.000E+00	33,520	0.000E+00	-	0.000E+00
2,4-Dimethylhexane	114	0.169	8.000E-04	8.000E-04	0.000E+00	0.9104	0.000E+00	33,520	0.000E+00	-	0.000E+00
2,3,4-Trimethylpentane	114	0.337	1.600E-03	1.600E-03	0.000E+00	0.9104	0.000E+00	33,520	0.000E+00	-	0.000E+00
Toluene	85	2.234	8.550E-03	7.800E-03	7.500E-04	0.9104	8.238E-04	33,520	1.724E-06	- ,	1.724E-05
2,3-Dimethylhexane	114	0.127	6.000E-04	5.000E-04	1.000E-04	0.9104	1.098E-04	33,520	1 1405-07	- -	1 149E-07
2-Methylheptane		9/0/9	3.500E-04	3.000E-04	3.000E-03	0.90	0.49ZE-03	33 520	ND CN	-	CN CN
3-Entymetarie	128	2 2	2 2	2 2	2 2	0.9104	QN	33.520	2	-	2
2.2.4-Trimethylbexane	128	0.075	4.000E-04	4.000E-04	0.000E+00	0.9104	0.000E+00	33,520	0.000E+00	-	0.000E+00
n-Octane	114	0.063	3.000E-04	3.000E-04	0.00E+00	0.9104	0.000E+00	33,520	0.000E+00	1	0.000E+00
Ethylcydohexane	112	Q	QN	ON	QN	0.9104	QN	33,520	QN.	-	Q
Ethylbenzene	160	0.158	1.050E-03	8.000E-04	2.500E-04	0.9104	2.746E-04	33,520	5.746E-07		5.746E-07
m-Xylene & p-Xylene	186	0.896	3.950E-03	3.500E-03	4.500E-04	0.9104	4.943E-04	33,520	1.034E-06	-	1.034E-06
Styrene	2	0.150	6.500E-04	5.000E-04	1.500E-04	0.9104	1.648E-04	33,520	3.448E-07	-	3.448E-07
o-Xylene	98	0.306	1.350E-03	1.100E-03	2.500E-04	0.9104	2.746E-04	33,520	5./4bE-0/	-	3.746E-07
n-Nonane	128	0.056	3.000E-04	1.000E-04	2.000E-04	0.9104	2.19/E-04	33,520	4.597E-07		4.39/E-0/
I-Propylbenzene	120	ON O	3 000E-04	ND 3000 6	1 000F-04	0.9104	1 098F-04	33,520	2 299F-07		2 299E-07
n-Friopyidenzene n-Ethylphiopo	120	0.000	S SOOF-OA	7 000E-04	1 500E-04	0.9104	1 648F-04	33.520	3.448E-07	-	3.448E-07
m-Ethyltoliana	120	0.090	4.500E-04	3.000E-04	1.500E-04	0.9104	1.648E-04	33,520	3.448E-07	-	3.448E-07
1.3.5-Trimethylbenzene	120	0:090	4.500E-04	4.000E-04	5.000E-05	0.9104	5.492E-05	33,520	1.149E-07	-	1.149E-07
o-Ethyltoluene	120	0.080	4.000E-04	2.000E-04	2.000E-04	0.9104	2.197E-04	33,520	4.597E-07	1	4.597E-07
1.2.4-Trimethylbenzene & sec-Butylbenzene	120	0.240	1.200E-03	1.000E-03	2.000E-04	0.9104	2.197E-04	33,520	4.597E-07	-	4.597E-07
n-Decane	142	0.042	2.500E-04	1.000E-04	1.500E-04	0.9104	1.648E-04	33,520	3.448E-07	1	3.448E-07
alpha-Pinene	136	QN	QN	QN	ON	0.9104	QN	33,520	ON	-	ND
beta-Pinene	136	QN	QN	QN	ON	0.9104	QN	33,520	Q	-	Q
delta 3-Carene	136	Q	QV	QN	QQ	0.9104	Q	33,520	2	_	Q
d-Limonene	136	QU S	QN S	QN Loop,	ON LOSS	0.9104	ON	33,520	ON	- -	ON 1000
MIBE	88	0.492	1.800E-U3	1.800E-U3	0.000=+00	0.9104	0.000E+00	33,520	O'CONE+OO	-	NO CN
Dichlorodifluoromethane	120	0.364	1.815E-03	1.432E-03	3.829E-04	0.9104	4.205E-04	33,520	8.800E-07	-	8.800E-07
Methylchloride	20	Q	QV	Q	Q	0.9104	QN	33,520	2	-	Ð
Dichlorotetrafluoroethane	171	QN	QN	ND	QN	0.9104	QN	33,520	QN	1	Q
Chloroethene	63	QN	QN	QN .	ON	0.9104	QN	33,520	Q	-	9
1,3-Butadiene	54	0.340	7.628E-04	2.034E-04	5.594E-04	0.9104	6.145E-04	33,520	1.286E-06	-	1.286E-06
Methylbromide	95	Q	QV	N	Q	0.9104	Q	33,520	Q	-	Q
Ethylchloride	64.5	Q	QN	QN	Q.	0.9104	Q	33,520	Q	-	9
Trichloromonofluoromethane	137	0.453	2.580E-03	2.612E-03	-3.174E-05	0.9104	2	33,520	2	-	2
Vinylidenechloride	97	2	Q	Q	Q	0.9104	ON S	33,520	QN I	-	ON LOSE
Methylenechloride	92	0.943	3.336E-03	1.287E-03	2.049E-03	0.9104	2.250E-03	33,520	4.709E-06	-	4.709E-06
Allyichionde	76.5	ON ST	ON S	ON S	ON LOSS,	0.9104	2 2	33,520	2	- ,	2 2
1,1,2-Inchloro-1,2,2-trittuoroethane	88 8	211.0	8.791E-04	8.801E-04	-1.038E-06	0.9104	2 2	33,520	2 2	-	2 2
1.1-Dichloroethene	20	2 2	2 2	2 5	2 5	0.910	2 2	33,520	S		S
Chloroform	110	2 2	2 5	2 5	2 5	0.90	2	33.520	Q	-	Q
				٩				22,22			

TABLE A-6. AEC - VOC RUN NO. 1 DATA FOR WHITE PARACHUTE SIGNAL FLARE TEST (1 APRIL 1998)

		Average	Average	Background -	Background Corrected	Dilution	Concentration -	Initial Plume	Sample Total	Nimber of	Corrected Emission Factor - Run
Compound (a)	Weight	Concentration - Run 1, ppbv	Run 1, mg/m³	mg/m³	Run 1, mg/m³	Factor (b), %	Run 1, mg/m³	Volume, ft³	1, lb	items	1, lb/item
1,2-Dichloroethane	66	Q	QN	QN	QN	0.9104	QN	33,520	QN	-	QN
Methylchloroform	133	0.070	3.886E-04	3.547E-04	3.393E-05	0.9104	3.727E-05	33,520	7.800E-08	-	7.800E-08
Benzene	78	2.351	7.628E-03	3.458E-03	4.170E-03	0.9104	4.581E-03	33,520	9.586E-06	-	9.586E-06
Carbontetrachloride	154	0.130	8.334E-04	7.438E-04	8.958E-05	0.9104	9.840E-05	33,520	2.059E-07	_	2.059E-07
1,2-Dichloropropane	113	QN	QN	ND	ON .	0.9104	QV	33,520	Q	-	QN
Trichloroethylene	133	QN	QN	QN	QN	0.9104	QN	33,520	Q	-	QN
cis 1,3-Dichloro-1-propene	111	QN	QN	ND	QN ·	0.9104	QV	33,520	Q	-	Q
trans 1,3-Dichloro-1-propene	111	ON	QN	QN	ND	0.9104	QN	33,520	QN	-	Q
1,1,2-Trichloroethane	133	QN	QN	ON	ND	0.9104	QN	33,520	QN	1	QN
Toluene	92	2.272	8.696E-03	7.934E-03	7.628E-04	0.9104	8.379E-04	33,520	1.753E-06	1	1.753E-06
1,2-Dibromoethane	188	QN	QN	ON	QN	0.9104	QN	33,520	Q	-	QN
Perchloroethylene	166	ON	ON	ND	QN	0.9104	Q	33,520	Q	-	Q
Chlorobenzene	113	QN	QN	QN	QN	0.9104	QN	33,520	Q	-	Q
Ethylbenzene	160	0.242	1.612E-03	1.228E-03	3.838E-04	0.9104	4.216E-04	33,520	8.822E-07	-	8.822E-07
m&p-Xylene	106	0.818	3.607E-03	3.585E-03	2.120E-05	0.9104	2.329E-05	33,520	4.873E-08	-	4.873E-08
Styrene	호	0.051	2.194E-04	QN	2.194E-04	0.9104	2.410E-04	33,520	5.044E-07	-	5.044E-07
1,1,2,2-Tetrachloroethane	168	Q	Q	QN	Q	0.9104	ON	33,520	ON !		ON I
o-Xylene	106	0.311	1.373E-03	1.119E-03	2.543E-04	0.9104	2.793E-04	33,520	5.845E-07	_	5.845E-07
p-Ethyltoluene	120	0.112	5.570E-04	5.604E-04	-3.483E-06	0.9104	QN	33,520	ON C		ON
,3,5-Trimethylbenzene	120	0.057	2.870E-04	2.845E-04	2.544E-06	0.9104	2.794E-06	33,520	5.847E-09	-	5.847E-09
1,2,4-Trimethylbenzene	120	0.190	9.466E-04	9.399E-04	6.666E-06	0.9104	7.322E-06	33,520	1.532E-08	-	1.532E-08
Benzylchlonde	127	Q C	Q.	ON C	QV	0.9104	ON S	33,520	2	-	2 2
m-Uichlorobenzene	147	2 2		ON	2 5	0.8104	2 5	33,520	2 2	- -	2 2
p-Dichlorobenzene	147	2	2	Q .	2	0.9104	2 2	33,520	2 2	- -	2 2
o-Dichioropenzene	<u>}</u>	2 2	2 2	2 5	200	0.9104	S S	33,320	2 2	-	2 2
L,Z,4-1 IICHIOODELIZERIE	101	2 5	2 5	2 5	2 2	0.9104	2 2	33,520	2 5	-	2
Phenylacetylene	102	S	CN	CZ	CN	0.9104	Q	33.520	Q	-	2
ndane	118	2	Q	Q	Q	0.9104	QN	33,520	QN	_	QN
3-Dihydro-1-methyl-1H-indene	132	QV	Q	QN	QN	0.9104	QV	33,520	QN	-	QN
3-Dihydro-4-methyl-1H-indene	132	QN	QN	QN	ND	0.9104	QN	33,520	QN	+	QN
Naphthalene	128	0.170	9.064E-04	4.279E-04	4.785E-04	0.9104	5.256E-04	33,520	1.100E-06	-	1.100E-06
2-Methylnaphthalene	142	2	Q	Q	Q	0.9104	QN	33,520	Q	-	9
-Methytnaphthalene	142	2	2	Q S	2 2	0.9104	2 2	33,520	2 2	- -	2 2
	20 25	169	A 281E-04	2 5	4 281E-04	0.9104	4 702F-04	33,520	9 841F-07	-	9 841 F-07
Acetonitile	14	0.442	7.547E-04	QN	7.547E-04	0.9104	8.289E-04	33,520	1.735E-06	_	1.735E-06
Acrylonitrile	53	0.390	8.593E-04	Q	8.593E-04	0.9104	9.439E-04	33,520	1.975E-06	_	1.975E-06
Nitromethane	61	0.334	8.485E-04	QN	8.485E-04	0.9104	9.320E-04	33,520	1.950E-06	1	1.950E-06
Propanenitrile	55	ON	QN	QN	QN	0.9104	QN	33,520	QN	+	QN
Methylpropanenitrile	69	QN	QN	Q	Q	0.9104	QN	33,520	Q	-	Q
Pentanenitrile	83	QV	Q	Q	2	0.9104	Q	33,520	Q	-	Q.
Hexanenitrile	97	Q	Q	2	Q	0.9104	QN	33,520	QN S	-	ON IS
Benzonitrile	103	0.081	3.458E-04	Q	3.458E-04	0.9104	3.798E-04	33,520	7.948E-07	- -	7.948E-07
2-Nitrophenol	139	ND 0.216	ND WD	2 2	ND F DAOE-DA	0.9104	NU 5 536F-04	33,520	1 158F-06	_	1 158E-06
Acetone	26	4.564	1.063E-02	8.348E-03	2.284E-03	0.9104	2.509E-03	33,520	5.251E-06	-	5.251E-06
I-Hydroxy-2-propanone	74	ND	QN	QN	QN	0.9104	QN	33,520	QN	1	QN
Furan	89	0.057	1.599E-04	QN	1.599E-04	0.9104	1.756E-04	33,520	3.676E-07	-	3.676E-07
:-Propanol	60	ND	ON	Q	Q	0.9104	QN	33,520	QN		2

TABLE A-6. AEC - VOC RUN NO. 1 DATA FOR WHITE PARACHUTE SIGNAL FLARE TEST (1 APRIL 1998)

al tone e e oxolane	ND ND ND ND ND ND ND ND ND ND ND ND ND N	ND ND ND ND 1.734E-03 ND ND ND 1.882E-03		Run 1, mg/m ²	Factor (b), %	Concentration - Run 1, mg/m²	Initial Plume Volume, ft?	Material - Run 1, lb	Number of Items	Factor - Run 1
	ND ND ND ND ND ND ND ND ND ND ND ND ND N	ND ND ND 1.734E.03 ND ND 1.882E.03	QN	QN	0.9104	QN	33,520	ON	-	Q
	ND 0.474 ND ND ND ND ND ND ND ND ND ND ND ND ND	ND ND 1.734E-03 ND ND 1.882E-03	Q	Q	0.9104	QV	33,520	QV	_	QN
	0.0628 ND ND N	NĎ 1.734E-03 ND ND 1.882E-03	S	Q	0.9104	QN	33,520	QN	1	Q
	0.0474 ND ND 0.628 ND ND ND ND 0.063 0.063	1.734E-03 ND ND 1.882E-03	QN	QN	0.9104	ND	33,520	QN	1	QN
	ND ND 0.628 ND ND ND ND 0.063 ND ND ND ND ND ND ND ND ND ND ND ND ND	ND ND 1.882E-03	1.677E-03	5.727E-05	0.9104	6.290E-05	33,520	1.316E-07	1	1.316E-07
	ND 0.628 ND ND ND 0.063 0.063	ND 1.882E-03	QN	QN	0.9104	ND	33,520	ON	1	Q
	0.628 ND ND ND ND 0.063	1.882E-03	3.764E-04	QN	0.9104	ΝD	33,520	ON	1	Q
	ON ND 0.063 0.562	2	1.053E-03	8.284E-04	0.9104	9.099E-04	33,520	1.904E-06	-	1.904E-06
	0.063 0.063 0.582	2	QN	QN	0.9104	ON	33,520	ON	1	Q
	0.063 0.582	ON	QN	QN	0.9104	ND	33,520	Q	1	Q
	0.063 0.582	ON	QN	QN	0.9104	ND	33,520	QN	1	Q
ans-2-Butenal 70	0.582	1.821E-04	QN	1.821E-04	0.9104	2.000E-04	33,520	4.185E-07	-	4.185E-07
cetic Acid 60	CZ	1.453E-03	1.211E-03	2.412E-04	0.9104	2.649E-04	33,520	5.544E-07	1	5.544E-07
-Butanol 74	2	QN	QN	QN	0.9104	ON	33,520	QN	1	QV
-Pentanone 86	0.157	5.631E-04	ON	5.631E-04	0.9104	6.185E-04	33,520	1.294E-06	1	1.294E-06
entanal 86	0.228	8.153E-04	1.785E-03	-9.692E-04	0.9104	ND	33,520	QN	1	Q
4-Dioxane 88	ND	QN	Q	Q	0.9104	ON	33,520	QV	-	2
lethyl Methacrylate 100	QN	Q	ON	Q	0.9104	ON	33,520	Q	-	Q
yclopentanone 84	ON	ON	QN	QN	0.9104	N	33,520	Q	-	Q
	0.227	9.454E-04	1.397E-03	-4.518E-04	0.9104	Q	33,520	2	-	2
-Furaldehyde 96	0.075	2.995E-04	ON	2.995E-04	0.9104	3.289E-04	33,520	6.883E-07	-	6.883E-07
yclohexanone 98	QN	ON	ON	ON	0.9104	ND	33,520	QN	1	QV
eptanal 114	0.168	7.979E-04	7.488E-04	4.904E-05	0.9104	5.387E-05	33,520	1.127E-07	-	1.127E-07
-Butoxyethanol 118	QN	QN	ON	QN	0.9104	ND	33,520	QN	1	QN
	0.424	1.870E-03	8.702E-04	1.000E-03	0.9104	1.099E-03	33,520	2.299E-06	-	2.299E-06
-Methyl-5-hepten-2-one	Q	Q	9.276E-04	Q	0.9104	Q	33,520	2	-	Q
	0.360	1.915E-03	1.799E-03	1.166E-04	0.9104	1.281E-04	33,520	2.681E-07	-	2.681E-07
	Q	Q	Q	Q	0.9104	Q	33,520	Q	-	2
-Ethyl-1-hexanol	QV	2	Q	9	0.9104	Q	33,520	2	-	Q
cetophonone 120	0.063	3.121E-04	ON	3.121E-04	0.9104	3.428E-04	33,520	7.174E-07	1	7.174E-07
onanal 142	0.473	2.796E-03	2.754E-03	4.201E-05	0.9104	4.614E-05	33,520	9.655E-08	1	9.655E-08
	0.287	1.863E-03	1.907E-03	-4.368E-05	0.9104	Q	33,520	Q	-	Q
arbonyi Sulfide 60	0.120	2.983E-04	1.934E-04	1.049E-04	0.9104	1.152E-04	33,520	2.410E-07	1	2.410E-07
ulfide	2.930	9.263E-03	5.646E-04	8.699E-03	0.9104	9.555E-03	33,520	1.999E-05	1	1.999E-05
hiophene 84	0.081	2.820E-04	ON	2.820E-04	0.9104	3.098E-04	33,520	6.483E-07	1	6.483E-07
imethyldisulfide 94	Q	Q	2	Q	0.9104	Q	33,520	Q	-	Q

a Compounds in bold represent duplicate values. b Estimated from tracer data as presented in Volume IV.

TABLE A-7. AEC - SVOC DATA EVALUATION FOR WHITE PARACHUTE SIGNAL FLARE TEST (1 APRIL 1998)

Compound Amat, mgm² Run I, mgm² mgm² mgm² Christia Christia <t< th=""><th></th><th>Average Concentration -</th><th>Average Concentration -</th><th>Average Background - Concentration,</th><th>Average Maximum Detection Limit - Concentration,</th><th>Average Minimum Detection Limit - Concentration,</th><th>Background Evaluation</th><th>Minimum Detection Limit Evaluation</th><th>Background Evaluation</th><th>Minimum Detection Limit Evaluation</th></t<>		Average Concentration -	Average Concentration -	Average Background - Concentration,	Average Maximum Detection Limit - Concentration,	Average Minimum Detection Limit - Concentration,	Background Evaluation	Minimum Detection Limit Evaluation	Background Evaluation	Minimum Detection Limit Evaluation
NO	Compound	Run 1, mg/m³	Run 1, mg/m³	mg/m³	mg/m³	mg/m³	Criteria	Criteria	Notes	Notes
March Marc										
NO	Particulate/Vapor-phase SVOCs	CZ.	QN.	CZ	1 909E-04	1 000E-04	CN	CN	L	u
NO	Pyridine	2 2	2	2 2	5.596F-04	5.596E-04	Q C	Q Q	. u.	L
ND	2-Picoline	2	2	2	5.815E-04	5.815E-04	QV.	2	L	ш.
ND	Methyl methanesulfonate	2	Q	QN	2.200E-04	2.200E-04	QN	Q	ш	L
ND	N-Nitrosomethylethylamine	QN	QN	QN	4.367E-04	4.367E-04	QN	QN	<u></u>	ш
ND	N-Nitrosodiethylamine	Q	Q	QV	4.663E-04	4.663E-04	QN	QN	ц	L
ND	Ethyl methanesulfonate	ON	ON	QN	2.145E-04	2.145E-04	ΩN	ON	F	ш
ND	Phenol	QN	QN	QN	1.372E-04	1.372E-04	QN	ON	ш	щ
ND	Aniline	ON	ON	ND	2.189E-04	2.189E-04	Q	2	ட	u.
ND	bis(2-Chloroethyl)ether	ON	2	S	1.712E-04	1.712E-04	Q	Q	ட	ய
ND	Pentachloroethane	NO	QN	QN	3.956E-04	3.956E-04	QN	Q	ட	щ
ND	2-Chlorophenol	Q	Q	Q	8.723E-05	8.723E-05	QN	Q	ட	ட
ND	1,3-Dichlorobenzene	ND	Q	ND	1.684E-04	1.684E-04	Q	Q	ட	Ľ.
ND	1,4-Dichlorobenzene	ON	ON	ND	3.379E-04	3.379E-04	QN	ON	ш	Щ
ND	Benzyl alcohol	ON	QN	ND	3.824E-04	3.824E-04	QN	QN	ட	ட
ND	2-Methylphenol	ND	NO	ND	3.078E-04	3.078E-04	ND	ON	F	щ
ND	1,2-Dichlorobenzene	ON	QN	ND	2.447E-04	2.447E-04	QN	QN	F	Ľ
ND	bis(2-Chloroisopropyl)ether	Q	Q.	ND	2.063E-04	2.063E-04	QV	Q	u.	ட
ND	o-Toluidine	ON	ON	ND	2.173E-04	2.173E-04	QN	ΩN	ш	щ
ND ND ND 1542E-04 1.542E-04 ND ND F	4-Methylphenol/3-Methylphenol	Q.	Q	ND	2.600E-04	2.600E-04	QN	Q	£	Ľ
5,510E-04 5,510E-04 2,70E-04 1,618E-04 2,03 3,40 C ND ND ND ND 1,618E-04 1,618E-04 ND ND C ND ND ND 0 2,710E-04 6,529E-04 ND ND F C ND ND ND 1,714E-04 1,714E-04 ND ND F F ND ND ND 1,74E-04 1,174E-04 ND ND F F ND ND ND 1,74E-04 1,74E-04 ND ND F ND ND ND ND 1,84E-04 1,84E-04 ND ND ND	N-Nitroso-di-n-propylamine	2	9	QN	1.542E-04	1.542E-04	QN	QN	ш	щ
ND ND ND 4,932E-04 4,932E-04 ND ND P ND ND ND 6,529E-04 ND ND ND F ND ND ND 2,716E-04 ND ND ND F ND ND ND 4,888E-04 4,888E-04 ND ND F ND ND ND 4,888E-04 4,888E-04 ND ND F ND ND ND A,888E-04 4,888E-04 ND ND F ND ND ND A,888E-04 1,74E-04 ND ND F ND ND ND 1,74E-04 ND ND F F ND ND ND 1,74E-04 ND ND ND F ND ND ND 2,94E-04 2,94E-04 ND ND F ND ND ND ND 1,65E-04 ND ND	Acetophenone	5.510E-04	5.510E-04	2.708E-04	1.618E-04	1.618E-04	2.03	3.40	ပ	ပ
ND ND ND 6529E-04 ND ND PF ND ND ND 4.88E-04 6.529E-04 ND ND PF ND ND ND 4.88E-04 ND ND ND F ND ND ND 1.174E-04 1.174E-04 1.174E-04 ND ND F ND ND ND 1.174E-04 1.174E-04 ND ND F ND ND ND 1.174E-04 1.174E-04 ND ND F ND ND ND 2.941E-04 2.941E-04 ND ND F ND ND ND 2.941E-04 2.941E-04 ND ND F ND ND ND 2.941E-04 2.941E-04 ND ND F ND ND ND 2.08E-04 2.951E-04 ND ND F ND ND ND ND 1.30E-04 1.36 </td <td>N-Nitrosomorpholine</td> <td>2</td> <td>9</td> <td>Q</td> <td>4.932E-04</td> <td>4.932E-04</td> <td>QN</td> <td>Q</td> <td>L.</td> <td>ш</td>	N-Nitrosomorpholine	2	9	Q	4.932E-04	4.932E-04	QN	Q	L.	ш
ND ND 2.710E-04 2.710E-04 ND ND PF ND ND ND 4,888E-04 ND ND ND PF ND ND ND 1,174E-04 1,174E-04 ND ND PF ND ND ND 1,174E-04 1,174E-04 ND ND ND PF ND ND ND ND 1,174E-04 ND ND ND PF ND ND ND 1,174E-04 ND ND ND PF ND ND ND 2,145E-04 ND ND ND PF ND ND ND 2,145E-04 ND ND ND PF ND ND ND 2,145E-04 ND ND ND PF ND ND ND 1,377E-04 1,375E-04 ND ND PF ND ND ND 1,377E-04 1,287E-04 N	N-Nitrosopyrrolidine	QN	Q	QN	6.529E-04	6.529E-04	QN	QN	ш	щ
ND ND 4,888E-04 4,888E-04 ND ND F ND ND ND 1,174E-04 1,174E-04 ND ND F ND ND ND 1,174E-04 1,174E-04 ND ND F ND ND ND 1,174E-04 1,174E-04 ND ND F ND ND ND 2,941E-04 ND ND F F ND ND ND 2,941E-04 ND ND ND F ND ND ND 2,941E-04 ND ND F F ND ND ND 2,941E-04 ND ND ND F ND ND ND 2,941E-04 1,937E-04 ND ND F ND ND ND 1,937E-04 1,937E-04 ND ND F ND ND ND 1,937E-04 1,367E-04 ND ND <td< td=""><td>Hexachloroethane</td><td>2</td><td>2</td><td>QN</td><td>2.710E-04</td><td>2.710E-04</td><td>QN</td><td>QN</td><td>L.</td><td>ட</td></td<>	Hexachloroethane	2	2	QN	2.710E-04	2.710E-04	QN	QN	L.	ட
ND ND 3.999E-04 3.999E-04 3.999E-04 ND ND ND PF ND ND 1.774E-04 1.774E-04 ND ND PF ND ND 1.849E-04 1.849E-04 ND ND PF ND ND ND 2.941E-04 ND ND PF ND ND ND 2.08E-04 2.941E-04 ND ND PF ND ND ND ND 2.08E-04 2.941E-04 ND ND PF ND ND ND 2.08E-04 2.941E-04 ND ND PF ND ND ND 2.68E-04 2.68E-04 1.937E-04 1.80 ND PF ND ND ND 1.68E-04 1.68E-04 1.68E-04 ND ND PF ND ND 1.68E-04 1.68E-04 1.68E-04 ND ND ND PF ND ND 1	Nitrobenzene	QN	8	Q	4.888E-04	4.888E-04	Q	2	뜨	L.
ND ND 1.74E-04 1.174E-04 ND ND F ND ND 1.849E-04 1.849E-04 ND ND F ND ND 2.941E-04 2.941E-04 ND ND F ND ND 2.145E-04 ND ND P F ND ND 2.08E-04 2.941E-04 ND ND F ND ND 2.08E-04 2.08E-04 ND ND F ND ND 1.937E-04 1.937E-04 1.48 1.80 D ND ND 1.767E-04 1.767E-04 ND ND F ND ND 1.887E-04 1.767E-04 ND ND F ND ND ND 1.887E-04 1.767E-04 ND ND F ND ND ND 1.19E-02 1.119E-02 ND ND F ND ND ND 1.119E-04 1.119E-04 <td>N-Nitrosopiperidine</td> <td>Q</td> <td>Q</td> <td>Q</td> <td>3.999E-04</td> <td>3.999E-04</td> <td>QN</td> <td>Q</td> <td>ш</td> <td>ш</td>	N-Nitrosopiperidine	Q	Q	Q	3.999E-04	3.999E-04	QN	Q	ш	ш
ND ND 1.849E-04 1.849E-04 ND ND P ND ND 2.941E-04 2.941E-04 ND ND P ND ND 2.145E-04 2.145E-04 ND ND P ND ND ND 2.08E-02 2.08E-02 ND ND F ND ND ND 1.937E-04 ND ND ND F ND ND ND 1.337E-04 ND ND ND F ND ND ND 1.767E-04 1.767E-04 1.767E-04 ND ND F ND ND ND ND 1.887E-04 1.887E-04 ND ND F ND ND ND 1.887E-04 1.887E-04 ND ND F ND ND ND ND ND ND ND F ND ND ND ND ND ND ND F	Isophorone	QQ	Q	9	1.174E-04	1.174E-04	Q	9	ட	ட
ND ND 2:941e-04 2:941e-04 ND ND P ND ND ND 2:145E-04 2:145E-04 ND ND P ND ND ND 2:08E-02 2:08E-02 ND ND F ND ND ND 1:937E-04 1:937E-04 ND ND F ND ND ND 1:937E-04 1:337E-04 ND ND F ND ND ND 1:767E-04 1:767E-04 1:767E-04 1:767E-04 ND ND F ND ND ND 1:87E-04 1:87E-04 ND ND F ND ND ND 1:87E-04 1:887E-04 ND ND F ND ND ND 1:87E-04 1:887E-04 ND ND F ND ND ND 1:87E-04 ND ND ND F ND ND ND ND ND<	2,4-Dimethylphenol	QV.	2	Q.	1.849E-04	1.849E-04	Q.	2	L	4
ND	Z-Nitrophenol	ON.	Q.	ON S	2.941E-04	2.941E-04	Q !	Q :	. I	L 1
ND	Dis(z-Chloroethoxy)methane	ON C	2 2	2 2	2.145E-04	2.145E-04	2 2	2 2	ı.	<u> </u>
ND	2.4 Dishlorophonol	2 2	2 2	ON CIV	2.000E-02	20-000-02	2 2	2	_ u	_ _
4,426E-04 4,426E-04 2,995E-04 2,452E-04 2,452E-04 1,767E-04 1,767E-04 1,890 D ND ND ND 1,767E-04 1,767E-04 1,767E-04 ND ND F ND ND ND 1,887E-04 1,887E-04 ND ND F ND ND ND 1,887E-04 1,887E-04 ND ND F ND ND ND 1,10E-04 3,100E-04 ND ND F ND ND ND 1,119E-02 1,119E-02 1,119E-02 ND ND F ND ND ND ND ND F ND F	1 2 4-Trichlorobenzene	2 2	2 5	2 2	1 037E-04	1 9375-04	2 2	2 2	_ [u	- u
ND	Nanhthalana	4 426F-04	4 426E-04		2 452E-04	2 4525-04	1 48	2 6		
ND	Chocopilipo	NO OW	L CN		1 7875 04	4 767E 04		8 2	۱,	3 4
ND ND ND 3,100E-04 ND ND F ND ND ND F ND ND	2 6-Dichlorophenol	2 2	2 2	2 5	1 887E-04	1 887E-04	2 5	2	- L	_ 4
ND	Hexachlorongone	S	2 2	2 2	3 100F-04	3 100E-04	2 5	2 5	. u	_ u
ND ND ND 1.119E-02 1.119E-02 ND ND F ND ND ND 2.052E-04 ND ND F	Hexachlorohitadiene	2 2	2 5	2 5	2.100E-04	2 798F-04	2 2	2 2	_ _	- Ju
e ND ND 2.052E-04 ND ND F	Dimethylphenethylamine	202	9	GN	1.119E-02	1 119E-02	Q	Q	. u.	. u.
	N-Nitroso-di-n-butylamine	Q	Q	Q	2.052E-04	2.052E-04	S	Q	L	ட

TABLE A-7. AEC - SVOC DATA EVALUATION FOR WHITE PARACHUTE SIGNAL FLARE TEST (1 APRIL 1998)

Average Average Concentration Concentration Bun 1. mo/m ²
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TABLE A-7. AEC - SVOC DATA EVALUATION FOR WHITE PARACHUTE SIGNAL FLARE TEST (1 APRIL 1998)

Compound	Average Concentration - Run 1, mg/m³	Average Concentration - Run 1, mg/m³	Average Background - Concentration, mg/m³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³	Background Evaluation Criteria	Minimum Detection Limit Evaluation Criteria	Background Evaluation Notes	Minimum Detection Limit Evaluation Notes
Carbazole	QN	QN	QN	1.344E-04	1.344E-04	ND	QN	F	L.
Di-n-butyiphthalate	3.134E-03	3.134E-03	1.357E-03	9.326E-05	9.326E-05	2.31	33.61	၁	Α
4-Nitroquinoline-1-oxide	Q	Q	Q.	1.234E-02	1.234E-02	QN	QN	ш	4
Methapyrilene	Q.	Q	QV	1.136E-02	1.136E-02	QN	QN	Ŧ	L
Fluoranthene	QN	Q	Q.	1.981E-04	1.981E-04	QN	QN	F	L.
Benzidine	Q	Q	9	7.351E-03	7.351E-03	QN	QN	F	±
Pyrene	QV.	Q	Q	2.721E-04	2.721E-04	QN	QN	F	ı.
p-Dimethylaminoazobenzene	g	QV	QN	2.019E-04	2.019E-04	ŅŅ	QN	F	L.
Chlorobenzilate	S	QN	Q.	2.809E-04	2.809E-04	QN	QN	L	u.
Kepone	QN	QN	QN	1.031E-02	1.031E-02	ND	QN	L	ш
Butylbenzylphthalate	QN	QN	QN	1.125E-04	1.125E-04	ND	QN	ш	щ
3,3'-Dimethylbenzidine	QN	QN	ND	1.086E-03	1.086E-03	ON	ON	ш	щ
2-Acetylaminofluorene	QN	QN	QN	1.712E-04	1.712E-04	ON	ND	ш	ட
bis(2-Ethylhexyl)phthalate	QV	QN	QN	6.693E-04	6.693E-04	ON	QN	ч	u.
3,3'-Dichlorobenzidine	9	QN	QN	1.838E-04	1.838E-04	ON	QN	F	ь
Benz(a)anthracene	ON	ON	ND	2.480E-04	2.480E-04	ON	QN	L	щ
Chrysene	ON	ND	ND	2.677E-04	2.677E-04	QN	2	ட	ட
Di-n-octylphthalate	ON	QN	ND	1.712E-04	1.712E-04	ON	QV	F	L.
7,12-Dimethylbenz(a)anthracene	QN	ON	ND	2.529E-04	2.529E-04	ON	ON	F	ட
Benzo(b)fluoranthene (a)	QN	QN	QN	1.525E-04	1.525E-04	QN	QN	F	F
Benzo(k)fluoranthene (a)	QN	ON	ND	3.187E-04	3.187E-04	ON	QN	ı	4
Benz(a)pyrene	ON	QN	QN	1.805E-04	1.805E-04	ON	QN	ц	ı.
3-Methylcholanthrene	QN	QN	QN	6.419E-04	6.419E-04	ND	QN	F	ı.
Indeno(1,2,3-cd)pyrene	QN	ON	QN	1.201E-04	1.201E-04	ON	QN	F	ů.
Dibenz(a,h)anthracene	QN	QN	QN	1.350E-04	1.350E-04	ND	ON	Ľ.	L.
Benzo(g,h,i)perylene	QN	Q	QN	1.295E-04	1.295E-04	ON	QN	F	L.

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

TABLE A-8. AEC - SVOC RUN NO. 1 DATA FOR WHITE PARACHUTE SIGNAL FLARE TEST (1 APRIL 1998)

Compound	Molecular Weight	Average Concentration - Run 1, ppbv	Average Concentration - Run 1, mg/m²	Background - Concentration, mg/m³	Background Corrected Concentration Run 1, mg/m³	Dilution Correction Factor (b), %	Corrected Concentration - Run 1, mg/m³	Initial Plume Volume, ft?	Sample Total Material - Run 1, Ib	Number of Items	Corrected Emission Factor - Run 1, Ib/Item
Particulate/Vanor-phase SVOCs											
N-Nitrosodimethylamine	74	QN	Q	QN	Q	0.8191	ON	33,520	QN	1	QN
Pyridine	- 26	Q	QN	QN	QN	0.8191	QN	33,520	QN	1	2
2-Picoline	93	S	QN	QV	QN	0.8191	ON	33,520	QN	1	g
Methyl methanesulfonate	110	QN	QN	ND	QN	0.8191	ND	33,520	Q	-	2
N-Nitrosomethylethylamine	88	QN	QN	ND	QN	0.8191	QN	33,520	Q	-	Q
N-Nitrosodiethylamine	102	QN	QN	ND	QN	0.8191	QN	33,520	Q	-	Ð
Ethyl methanesulfonate	124	S	QN	ND	QN	0.8191	ON	33,520	QN	1	QN
Phenol	94	Q	QN	ND	QN	0.8191	QN	33,520	QN	-	QN
Aniline	93	Q	Q	QN	Q	0.8191	QN	33,520	QN	1	QN
bis(2-Chloroethyl)ether	143	Q	Q	QN	Q	0.8191	QN	33,520	ON	1	QN
Pentachloroethane	202	QN	Q	QN	Q	0.8191	QN	33,520	QN	1	QN
2-Chloropheriol	129	QN	QV	QV	Q	0.8191	QN	33,520	Q	1	QN
1,3-Dichlorobenzene	147	QN	QN	Q	QN	0.8191	QN	33,520	QN	1	QN
1,4-Dichlorobenzene	147	Q	QN	QV	Q	0.8191	QN	33,520	QV	1	QN
Benzyl alcohol	108	QN	QN	ND	QN	0.8191	QN	33,520	QN	1	QN
2-Methylphenol	108	QN	QN	ND	QN	0.8191	Q	33,520	Q	-	Q
,2-Dichlorobenzene	147	QN	QN	ND	QN	0.8191	QN	33,520	Q	-	Q
bis(2-Chloroisopropyl)ether	171	QN	QN	ON	Q	0.8191	Q	33,520	Q	-	Q
o-Toluidine	107	Q	QN	Q.	Q	0.8191	QN	33,520	Q	-	Q
4-Methylphenol/3-Methylphenol	108	Q	2	9	9	0.8191	QV.	33,520	2	-	2
N-Nitroso-di-n-propylamine	130	QN		QU	Q	0.8191	QN C	33,520	ON 1		ON 1937 E
Acetophenone	120	0.110	5.510E-04	2.708E-04	2.802E-04	0.8191	3.421E-04	33,520	7.159E-07	-	7.159E-07
N-Nitrosomorpholine	116	ON.	Q S	Q	2	0.8191	2 2	33,520	2 2	- -	2 2
N-Nitrosopyrrolidine	100	Q Z	2 2	2 2	2 2	0.0191	Q Z	33,320	2 2		2 2
nexachioroemane Nischentene	193	2 2	2 2	2 2	2 2	0.0191	2 2	33,500	2 2	-	2
N-Nitrosonineridine	114	GN	S	GN	S	0.8191	QN	33,520	2	-	2
Sophorone	138	QN	9	QN	2	0.8191	Q	33,520	2	-	2
4-Dimethylphenol	122	Q	2	Q	Q	0.8191	QN	33,520	QV	-	QN •
2-Nitrophenol	139	QN	Q	QN	QN	0.8191	QN	33,520	Q	-	Q
bis(2-Chloroethoxy)methane	173	QN	Q	Q	Q	0.8191	QN	33,520	QN	1	QN
Benzoic acid	122	QN	QN	ND	QN	0.8191	QN	33,520	Q	1	QN
2,4-Dichlorophenol	163	QN	Q	Q	Q	0.8191	Q	33,520	9	-	Q
2,4-Trichlorobenzene	181	QN	Q	QN	Q	0.8191	S	33,520	9	-	Q
Naphthalene	128	0.083	4.426E-04	2.995E-04	1.431E-04	0.8191	1.747E-04	33,520	3.655E-07	-	3.655E-07
p-Chloroaniline	128	Q	Q	Q	Q	0.8191	Q	33,520	Q	1	Q
6-Dichlorophenol	163	Q	QN	ND	QN	0.8191	Q	33,520	2	-	2
Hexachloropropene	249	Q	Q	Q	2	0.8191	QN	33,520	Q !	-	Q
Hexachlorobutadiene	261	Q.	2	Q	QN	0.8191	ON !	33,520	2		2
Dimethylphenethylamine	149	Q	2	2	Q	0.8191	QN	33,520	2	_	2
N-Nitroso-di-n-butylamine	158	Q	2	2	2	0.8191	Q	33,520	2		2
4-Chloro-3-methylphenol	143	QN	Q	2	2	0.8191	QN	33,520	2		2
Safrole	162	Q	Q	Q	2	0.8191	Q	33,520	9		2
2-Methylnaphthalene	142	Q :	Q.	Q.	9	0.8191	Q	33,520	2	-	2
1,2,4,5-Tetrachlorobenzene	216	Q	2	Q.	2	0.8191	Q	33,520	2		2
Hexachlorocyclopentadiene	2/3	Q.	2	ON:	Q	0.8191	2	33,520	ON.	-	2

TABLE A-8. AEC - SVOC RUN NO. 1 DATA FOR WHITE PARACHUTE SIGNAL FLARE TEST (1 APRIL 1998)

	Molecular	Average Concentration	Average Concentration -	Background - Concentration.	Background Corrected Concentration -	Dilution	Corrected	Initial Plume	Sample Total	N.mber of	Corrected Emission
Compound	Weight	Run 1, ppbv	Run 1, mg/m³	mg/m³	Run 1, mg/m³	Factor (b), %	Run 1, mg/m³	Volume, ft ³	1, lb		1, Ib/item
2,4,5-Trichlorophenol	197	QN	QN	QN	ON	0.8191	QN	33,520	QN	-	Q
Isosafrole	162	Q	Q	Q	ON	0.8191	ON	33,520	QN	ļ	QN
2-Chloronaphthalene	163	Q	QN	QN	Q	0.8191	ON	33,520	ON	1	ND
2-Nitroaniline	138	Q	QN	Q	QN	0.8191	ON	33,520	QN	1	ON
1,4-Naphthoquinone	158	Q	Q	Q	QN	0.8191	ON	33,520	QN	1	DN
Dimethylphthalate	194	Q	QN	Q	Q	0.8191	ON	33,520	ON	1	ND
1,3-Dinitrobenzene	168	QN	QN	QN	QN	0.8191	QN	33,520	Q	1	QV
2,6-Dinitrotoluene	182	QN	QN	ON	QN	0.8191	QN	33,520	QV	1	Q
Acenaphthylene	152	QN	QN	QN	QN	0.8191	ON	33,520	Q		Q
3-Nitroaniline	138	ON	QN	QN	QN	0.8191	QN	33,520	Q	-	Q
4-Nitrophenol	139	QN	QN	QN	QN	0.8191	QN	33,520	QN	1	QV
2,4-Dinitrophenol	184	QN	QN	QN	QN	0.8191	QN	33,520	QN	1	Q
Acenaphthene	154	QN	QN	QN	QN	0.8191	QV	33,520	9	-	QV
2,4-Dinitrotoluene	182	ON	QN	QN	QN	0.8191	QN	33,520	Q.	-	QV
Dibenzofuran	168	QN	ON	QN	QN	0.8191	Q	33,520	Q	-	ð
Pentachlorobenzene	250	ON	QN	QN	QN	0.8191	QV	33,520	Q	_	S.
1-Naphthylamine	143	Q	ON	QN	QN	0.8191	QN	33,520	Q	-	Q
2-Naphthylamine	143	QN	ON	QN	_QN	0.8191	QN	33,520	QV		9
2,3,4,6-Tetrachlorophenol	232	QV	QN	QN	QN	0.8191	QN	33,520	QN	1	Q
Diethylphthalate	222	0.064	5.907E-04	3.475E-04	2.433E-04	0.8191	2.970E-04	33,520	6.216E-07	1	6.216E-07
4-Chlorophenylphenyl ether	205	2	QN	Q	QV	0.8191	Q	33,520	ON	1	QN
Fluorene	166	9	Q	Q	QN	0.8191	Q	33,520	QN	-	QN
5-Nitro-o-toluidine	152	9	QV	QN	QN	0.8191	Q	33,520	QN	1	ON
4-Nitroaniine	138	Q	Q	Q	Q	0.8191	Q	33,520	QN	1	QN
4,6-Dinitro-2-methyiphenol	198	Q	2	Q	Q	0.8191	QV	33,520	Q	1	Q
Ulphenylamine/N-NitrosoUPA	169		2	QV.	QN	0.8191	Q	33,520	QN	-	Q
Sym- innirobenzene	213		Q.	Q	Q	0.8191	Q	33,520	Q	-	Q
Diamare	2/0	2	Q.	Q.	QV.	0.8191	9	33,520	Q	+	Q
A Bromoshomulathon I other	6/2	2 5	2 2	2 2	200	0.8191	Q	33,520	9	-	2
Hexachlorobenzene	286	2 0	2 2	2 2	2 2	1919	2 2	33,520	QV.		2
4-Aminohiphanyl	169		2 2	2 2		0.0131	2	33,320	2	-	2
Propamide	800	2 2	2 5	2 2	2 2	0.9191	2 2	33,520	2 5	-	2
Pentachlorophenol	992	S	2 5	2 2	2 2	0.0131	2 2	33,320	2	- -	2 2
Pentachioronitrobenzene	295	S	Q	QN	S	0.8191	S	33,520	2 2	-	2 2
Phenanthrene	178	QN	Q	Q	2	0.8191	Q	33.520	S	-	CZ
Anthracene	178	QN	Q.	ON	QN	0.8191	QN	33,520	2	-	Q
Carbazole	167	QN	QV	ON	9	0.8191	QN	33,520	Q	-	2
Di-n-butylphthalate	278	0.271	3.134E-03	1.357E-03	1.778E-03	0.8191	2.170E-03	33,520	4.541E-06	_	4.541E-06
4-Nitroquinoline-1-oxide	190	QN	QN	QN	QN	0.8191	QV	33,520	Q.	-	Q
Methapyrilene	261	QN	QN	QN	QN	0.8191	ND	33,520	QN	-	Q
Fluoranthene	202	QN	ON	ON	QN	0.8191	ND	33,520	Q	-	Q
Benzidine	184	Q	Q	ON	ON	0.8191	QN	33,520	QN	-	Q
Pyrene	202	Q.	QN	QN	QN	0.8191	QN	33,520	QN	_	S
p-Dimethylaminoazobenzene	225	QN	Q	QN	QN	0.8191	ND	33,520	QN		S
Chlorobenzilate	325	QN	Q	QV	ND	0.8191	QN	33,520	QN	-	9
Kepone	491	Q	Q	QN	QN	0.8191	QN	33,520	DN	1	ND
Butylbenzylphthalate	312	Q.	Q	Q	QV	0.8191	Q	33,520	QN	+	ND
3,3-Dimethylbenzidine	212	Q	2	QN	QV	0.8191	QV	33,520	QN	+	QN
Z-Acetylaminofluorene	223	ON	QV.	Q.	Q	0.8191	Q	33,520	QN	-	QN

TABLE A-8. AEC - SVOC RUN NO. 1 DATA FOR WHITE PARACHUTE SIGNAL FLARE TEST (1 APRIL 1998)

Corrected Emission Factor - Run 1, Ib/Item	QN	ON	QN	QN	QV	ON	QN	ON	ON	QN	QN	DN	QN
Number of Items	1	1	-	-	1	-	1	-	1	-	-	1	-
Sample Total Material - Run 1, lb	QN	QN	Q	QN	QN	QN	QN	QN	QN	QN	Q	ON	QN
Initial Plume Volume, ft²	33,520	33,520	33,520	33,520	33,520	33,520	33,520	33,520	33,520	33,520	33,520	33,520	33,520
Corrected Concentration Run 1, mg/m³	ND	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN
Dilution Correction Factor (b), %	0.8191	0.8191	0.8191	0.8191	0.8191	0.8191	0.8191	0.8191	0.8191	0.8191	0.8191	0.8191	0.8191
Background Corrected Concentration - Run 1, mg/m³	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	Q	QN	QN
Background - Concentration, mg/m³	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	Q	QN	ON
Average Concentration Run 1, mg/m³	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	Q	QN	QN
Average Concentration - Run 1, ppbv	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	Q	QN	QN
Molecular Weight	391	253	228	228	391	256	252	252	252	268	276	278	276
Compound	s(2-Ethylhexyl)phthalate	3'-Dichlorobenzidine	enz(a)anthracene	hrysene	-n-octylphthalate	12-Dimethylbenz(a)anthracene	enzo(b)fluoranthene (a)	enzo(k)fluoranthene (a)	enz(a)pyrene	Methylcholanthrene	deno(1,2,3-cd)pyrene	benz(a,h)anthracene	enzo(g,h,i)perylene

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers. b Estimated from tracer data as presented in Volume IV.

155 MM ILLUMINATION ROUND

TABLE A-1. AEC MUNITION ITEM INPUT DATA SHEET (1 APRIL 1998)

Munition Item: 155mm Illumination Round Created by: Radian International LLC

No. of Runs =

Sample Volumes:	Run	No. 1	Run	No. 2	Run N	lo. 3	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(ft³)
TSP	49.5	63.6	NA	NA	NA	NA	56.53
PM ₁₀	42.3	43.9	NA	NA	NA	NA	43.09
Metals	49.5	63.6	NA	NA	NA	NA	56.53
VOCs	NA						
SVOCs	10.7	9.7	NA	NA	NA	NA	10.18
HCI/CI₂	32.3	22.1	NA	NA	NA	NA	27.20
Energetics	NA						
Dioxin/Furan	13.9	13.0	NA	NA	NA	NA	13.45
Residue	NA						
CEM	NA	NA	NA	NA	NA	NA	NA NA

Sample Volumes:	Run	No. 1	Run l	No. 2	Run	No. 3	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(mL)
HCI/Cl ₂ (H ₂ SO ₄)	49.5	39.0	NA	NA	NA	NA	44.25
HCI/CI₂ (NaOH)	34.0	43.0	NA	NA	NA	NA	38.50

Sample Weight Gain:	Run	No. 1	🤻 🦠 Run	No. 2	Run	No. 3	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(g)
TSP	1.3018	2.5131	NA	NA	NA	NA	1.9075
PM ₁₀	2.1325	1.9271	NA	NA	NA	NA	2.0298

Dilution Correction Factors:	Run No. 1	Run No. 2	Run No. 3	Average
TSP	0.9389	NA	NA	0.9389
PM ₁₀	0.9435	NA	NA	0.9435
Metals	0.9389	NA	NA	0.9389
VOCs	0.9264	NA	NA	0.9264
SVOCs	0.9299	NA	NA	0.9299
HCl/Cl₂	0.9299	NA	NA	0.9299
Energetics	NA	NA	NA	NA
Dioxin/Furan	0.9299	NA	NA	0.9299
Residue	NA	NA	NA	NA
CEM	0.8676	NA	NA	0.8676

	Run No. 1	Run No. 2	Run No. 3	Average
Initial Plume Volume (m³)	951.86	NA	NA	951.86
Net Explosive Weight (g)	2777.35	NA	NA	2777.35

TABLE A-2. AEC BACKGROUND INPUT DATA SHEET (1 APRIL 1998)

Munition Item: 155mm Illumination Round Created by: Radian International LLC

No. of Runs =

Sample Volumes:	IR - Bac	kground	Reager	nt Blank	Field	Blank	Average
2.1	Train A	Train B	Train A	Train B	Train A	Train B	(ft³)
TSP	1354.9	NA	NA	NA	NA	NA	1354.93
PM ₁₀	1021.0	NA	NA	NA	NA	NA	1020.97
Metals	1354.9	NA	NA	NA	NA	NA	1354.93
VOCs	NA	NA	NA	NA	NA	NA	NA
SVOCs	121.2	NA	NA	NA	NA	NA	121.22
HCl/Cl₂	29.3	NA	NA	NA	NA	NA	29.27
Energetics	NA	NA	NA	NA	NA	NA	NA
Dioxin/Furan	112.7	NA	NA	NA	NA	NA	112.73
Residue	NA	NA	NA	NA	NA	NA	NA
CEM	NA	NA	NA	NA	NA	NA	NA

Sample Volumes:	IR - Bac	kground	Reager	it Blank	Field	Biank	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(mL)
HCI/CI ₂ (H ₂ SO ₄)	48.0	NA	107.2	NA	45.3	NA	48.00
HCI/Cl ₂ (NaOH)	39.0	NA	92.0	NA	41.5	NA	39.00
HCI/Cl ₂ (H ₂ O)	NA	NA	100.0	NA	NA	NA	NA

Sample Weight Gain:	IR - Bac	kground	Reager	it Blank	Field I	Blank	Average
	Train A	Train B	Train A	Train B	Train A	Train B	(g)
TSP	-0.0010	NA	-0.0026	NA	-0.0037	NA	-0.0010
PM ₁₀	-0.0005	NA	-0.0002	NA	-0.0029	NA	-0.0005

TABLE A-3. AEC - TSP, PM₁₀, HCUCI₃, DIOXIN/FURAN, CO, CO₂, NOx, SO₂, AND METALS DATA EVALUATION FOR 155 mm ILLUMINATION ROUND TEST (1 APRIL 1998)

	Average Concentration -	Average Concentration -	Average Background - Concentration,	Average Maximum Detection Limit - Concentration,	Average Minimum Detection Limit - Concentration,	Background Evaluation	Minimum Detection Limit Evaluation	Background Evaluation	Minimum Detection Limit Evaluation
Compound	Run 1, mg/m³	Run 1, mg/m³	mg/m ₃	_ mg/m_	_m/gm	Criteria	Criteria	Notes	Notes
Particulate									
TSP	1.163E+03	1,163E+03	QN	QN	QV	10.00	10.00	A	A
PM ₁₀	1.666E+03	1.666E+03	QN	QN	QN	10.00	10.00	A	∢
Hudrone Chloride (HCI)/Chlorine (CI)									
HCI	QN	QN	QN	7.145E-02	5.623E-02	Q	QN	F	ч
Ci ²	2.472E-02	2.472E-02	3.022E-02	1.701E-03	1.338E-03	0.82	18.48	Ŧ	4
Divvio									
Dioxin TEQ (a)	3.694E-09	3.694E-09	1.484E-10	QN	QN	24.89	10.00	A	۷
Continuous Emissions Monitoring (CEM) System	ystem								
Carbon Monoxide (CO)	1.026E+01	1.026E+01	2.826E-01	QN	QN	36.31	10.00	V	V
Nitrogen Oxide (NOx)	3.619E+01	3.619E+01	1.737E-02	Q	2	2083.59	10.00	V	٨
HCI	4.549E-01	4.549E-01	3.844E-01	S	Q	1.18	10.00	۵	¥.
Carbon Dioxide (CO ₂)	1.358E+03	1.358E+03	6.581E+02	QN	Q	2.06	10.00	ပ	٧
Sulfur Dioxide (SO ₂)	1.064E+00	1.064E+00	7.430E-04	ΩN	ON	1431.89	10.00	∢	٧
Particulate-phase Metals									
Aluminum	1.960E-01	1.960E-01	NA (b)	2.741E-02	2.431E-02	NA (b)	8.06	NA (D)	9
Antimony	1.150E-02	1.150E-02	NA (b)	3.945E-03	3.492E-03	NA (b)	3.29	NA (b)	ا د
Arsenic	N	Q	NA (b)	2.705E-03	2.395E-03	NA (b)	2	NA (D)	_
Barium	2.121E-01	2.121E-01	NA (b)	3.003E-04	2.657E-04	NA (b)	797.99	NA (b)	۷ ـ
Beryllium	1.384E-04	1.384E-04	NA (b)	1.668E-04	1.4/8E-04	(0) AN	0.34	(D) (A)	
Cadmium	4.037E-02	4.037E-02	NA (b)	3.337E-04	2.955E-04	NA (b)	130.30	NA(b)	۵ م
Chromium	3.7705-03	3.7.00-03	(O) WN	1000 L	3.2205-04	(d) (V)	70.	NA (h)	٥
Cobalt	1.028E-03	1.028E-03	NA (D)	5.899E-04	5.220E-04	NA (D)	32.00	NA (H)	3
Copper	4.130E-02	4.130E-02	NA (0)	0.0001.00	1.2075-03	(4) (1)	16.03	NA (h)	
Lead	3.188E-02	3.188E-02	(Q) WA	Z.ZZ8E-U3	1.9000-03	(4) 414	10.61	A VIV	
Magnesium	7.880E+01	7.880E+01	(D) AV (D)	5.768E-03	3. FOUE-US	(a) VIV	190.00	(A) VIV	
Manganese	2.958E-02	2.958E-02	NA (b)	2.562E-04	2.264E-04	(a) A (c)	130.03	(a) VIV	
Nickel	5.043E-03	5.043E-03	NA (b)	9.021E-04	7.984E-04	(a) 414	0.32	(a) VN	
Phosphorus	3.234E-02	3.234E-UZ	NA (b)	0.340E-03	1 0075-03	(H) AN	2	(A) AN	ı u
Selenium			(4) VN	4 0045 04	2 EE 4 EL OA	A A IA	Ş	NA (h)	L
Silver	2 2	22	(D) VIV	4.004E-04	4 493E-04	(A)	S	NA (b)	u.
I namum	A 207E-01	A 207E-01	NA (b)	4 R26F-03	4 266F-03	NA (b)	147.59	NA (b)	A
Moreine	0.2372-01 0.773E-06	9.773E-06	NA (h)	7 222E-06	6.793E-06	NA (b)	1.44	NA (b)	0
Intervaly		******	72,						

a Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD

Insufficient material to analyze

A = Identified as a contaminant (greater than or equal to 10 times background or minimum MQL)

B = Likely contaminant (less than 10 and greater than or equal to 5 times background or minimum MQL)

C = Probable contaminant (less than 5 and greater than or equal to 2 times background or minimum MQL)

D = Measured, but accuracy or presence questionable (less than 2 and greater than or equal to 1 times background or minimum MQL)

F = Not considered a contaminant (less than 1 times background or minimum MQL)

TABLE A-4. AEC - TSP, PM₁₀, HCUCI₂, DIOXIN/FURAN, CO, CO₂, NO₃, SO₂, AND METALS RUN NO. 1 DATA FOR 155 mm ILLUMINATION ROUND (1 APRIL 1998)

		Average	Average	Background -	Background Corrected	Dilution	Corrected		Sample Total		Corrected Emission
Compound	Molecular Weight	Concentration - Run 1, ppbv	Concentration - Run 1, mg/m³	Concentration, mg/m³	Concentration - Run 1, mg/m³	Correction Factor (a), %	Concentration - Run 1, mg/m³	Initial Plume Volume, ff	Materiat - Run 1, Ib	Number of Items	Factor - Run 1, Ib/item
Particulate											
TSP		,	1.163E+03	QN	1.163E+03	0.9389	1.238E+03	33,614	2.598E+00	1	2.598E+00
PM ₁₀	•	•	1.666E+03	QN	1.666E+03	0.9435	1.766E+03	33,614	3.705E+00	1	3.705E+00
Hydrogen Chloride (HCI)/Chlorine (CI,)											
HCI (b)	36	Q	Ð	Q	Q	0.9299	ND ND	33,614	2	-	2
Cl ₂ (b)	۲	8.381	2.472E-02	3.022E-02	-5.504E-03	0.9299	QN	33,614	Q	-	2
Dioxin/Furan											
Dioxin TEQ (c)		•	3.694E-09	1.484E-10	3.545E-09	0.9299	3.812E-09	33,614	8.001E-12	-	8.001E-12
Continuous Emissions Monitoring (CEM) System	Vstem			1					1, 1,		
Carbon Monoxide (CO)	28	8811.353	1.026E+01	2.826E-01	9.981E+00	0.8676	1.150E+01	33,614	2.414E-02	-	2.414E-02
Nifrogen Oxide (NOx)	46	18912.740	3.619E+01	1.737E-02	3.617E+01	0.8676	4.169E+01	33,614	8.750E-02		8.750E-02
HCI (b)	36	303.724	4.549E-01	3.844E-01	7.047E-02	0.8676	8.122E-02	33,614	1.704E-04	-	1.704E-04
Carbon Dioxide (CO ₂)	44	742183.700	1.358E+03	6.581E+02	7.004E+02	0.8676	8.073E+02	33,614	1.694E+00	-	1.694E+00
Sulfur Dioxide (SO ₂)	64	399.578	1.064E+00	7.430E-04	1.063E+00	0.8676	1.225E+00	33,614	2.571E-03	1	2.571E-03
raidculate-pilase metals	į	****	,000	47, 414	, 0000	0000	10000	7.70	1001	,	1001
Aluminum	77	7.265	1.960E-01	NA (d)	1.950E-01	0.9389	2.088E-01	33,014	2 570E 05	-	9 5705.05
Arsenic	75	ON.	NO CN	(P) AN	ND	0.9389	ND	33.614	ND GN	-	S ON
Barium	137	37.209	2.121E-01	NA (d)	2.121E-01	0.9389	2.259E-01	33.614	4.740E-04	-	4.740E-04
Beryllium	6	0.370	1.384E-04	NA (d)	1.384E-04	0.9389	1.474E-04	33,614	3.094E-07	_	3.094E-07
Cadmium	112	8.664	4.037E-02	NA (d)	4.037E-02	0.9389	4.299E-02	33,614	9.022E-05	1	9.022E-05
Chromium	52	1.746	3.776E-03	NA (d)	3.776E-03	0.9389	4.022E-03	33,614	8.441E-06	1	8.441E-06
Cobatt	59	0.419	1.028E-03	NA (d)	1.028E-03	0.9389	1.094E-03	33,614	2.297E-06	1	2.297E-06
Copper	64	15.511	4.130E-02	NA (d)	4.130E-02	0.9389	4.398E-02	33,614	9.230E-05	-	9.230E-05
Lead	207	3.702	3.188E-02	NA (d)	3.188E-02	0.9389	3.395E-02	33,614	7.125E-05		7.125E-05
Magnesium	24	78931.244	7.880E+01	NA (d)	7.880E+01	0.9389	8.393E+01	33,614	1.761E-01	-	1.761E-01
Manganese	55	12.927	2.958E-02	NA (d)	2.958E-02	0.9389	3.150E-02	33,614	6.611E-05	-	6.611E-05
Nickel	59	2.055	5.043E-03	NA (d)	5.043E-03	0.9389	5.371E-03	33,614	1.127E-05	-	1.127E-05
Phosphorus	31	25.081	3.234E-02	NA (d)	3.234E-02	0.9389	3.445E-02	33,614	7.229E-05	-	7.229E-05
Selenium	79	Q	Q	NA (d)	Q	0.9389	Q	33,614	Q	•	Q
Silver	108	Q	Q	NA (d)	2	0.9389	Q	33,614	Q	-	2
Thallium	204	Q	Q	NA (d)	Q	0.9389	QN	33,614	Q	-	9
Zinc	65	232.864	6.297E-01	NA (d)	6.297E-01	0.9389	6.706E-01	33,614	1.407E-03	-	1.407E-03
Mercury	201	0.00	9.773E-06	NA (d)	9.773E-06	0.9389	1.041E-05	33,614	2.184E-08		2.184E-08

a Estimated from tracer data as presented in Volume IV.

c. Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD. Presence questionable - reported at similar levels in samples and blanks. b HCUCI₂ levels were too low to be reliably measured.

d Insufficient material to analyze.

TABLE A-5. AEC - VOC DATA EVALUATION FOR 155 mm ILLUMINATION ROUND TEST (1 APRIL 1998)

	Average	Average	Average Background -	Average Maximum Detection Limit -	Average Minimum Detection Limit -	Background	Minimum Detection Limit	Background	Minimum Detection Limit
Compound (a)	Concentration - Run 1, mg/m²	Concentration - Run 1, mg/m³	Concentration, mg/m³	Concentration, mg/m³	Concentration, mg/m³	Evaluation Criteria	Evaluation Critería	Evaluation Notes	Evaluation Notes
Total Nonmethane Hydrocarbons (TNMHC)									
TNMHC	7.089E-01	7.089E-01	3.620E-02	1.000E-04	1.000E-04	19.58	7089.00	A	۷
Volatile Organic Compounds (VOCs)									
Ethane	5.550E-03	5.550E-03	2.500E-03	1.000E-04	1.000E-04	2.22	55.50	ပ	4
Ethylene	1.243E-01	1.243E-01	2.000E-04	1.000E-04	1.000E-04	621.50	1243.00	А	A
Acetylene	1.140E-01	1.140E-01	7.000E-04	1.000E-04	1.000E-04	162.86	1140.00	Α	A
Propane	1.745E-02	1.745E-02	8.000E-04	1.000E-04	1.000E-04	21.81	174.50	A	A
Propene	1.885E-02	1.885E-02	ON	1.000E-04	1.000E-04	10.00	188.50	A	A
i-Butane	7.500E-04	7.500E-04	1.000E-04	1.000E-04	1.000E-04	7.50	7.50	В	8
i-Butene	1.070E-02	1.070E-02	ON	1.000E-04	1.000E-04	10.00	107.00	A	Α
1-Butene	8.750E-03	8.750E-03	QN	1.000E-04	1.000E-04	10.00	87.50	A	A
1,3-Butadiene	QN	QN	QN	1.000E-04	1.000E-04	QN	QN	ш	F
n-Butane	3.600E-03	3.600E-03	4.000E-04	1.000E-04	1.000E-04	9.00	36.00	В	A
trans-2-Butene	3.700E-03	3.700E-03	QN	1.000E-04	1.000E-04	10.00	37.00	A	A
2,2-Dimethylpropane	QN	Q	ON	1.000E-04	1.000E-04	Q	QN	ı.	ч
cis-2-Butene	1.550E-03	1.550E-03	QN	1.000E-04	1.000E-04	10.00	15.50	Ą	A
3-Methyl-1-butene	4.000E-04	4.000E-04	ON	1.000E-04	1.000E-04	10.00	4.00	A	ပ
i-Pentane	1.000E-03	1.000E-03	5.000E-04	1.000E-04	1.000E-04	2.00	10.00	၁	Ą
1-Pentene	3.500E-03	3.500E-03	QN	1.000E-04	1.000E-04	10.00	35.00	A	Α
2-Methyl-1-butene	1.400E-03	1.400E-03	QN	1.000E-04	1.000E-04	10.00	14.00	٧	A
n-Pentane	1.700E-03	1.700E-03	6.000E-04	1.000E-04	1.000E-04	2.83	17.00	ပ	A
Isoprene	Q	Q	2.000E-04	1.000E-04	1.000E-04	QN	QN	Ц	ıτ
trans-2-Pentene	5.500E-04	5.500E-04	Q	1.000E-04	1.000E-04	10.00	5.50	A	В
cis-2-Pentene	4.000E-04	4.000E-04	Q	1.000E-04	1.000E-04	10.00	4.00	A	ပ
2-Methyl-2-butene	Q	Q	Q	1.000E-04	1.000E-04	ON	QN	ш	11.
2,2-Dimethylbutane	Q	Q	1.000E-04	1.000E-04	1.000E-04	QN	QN	ш	ш.
Cyclopentene	1.800E-03	1.800E-03	Q	1.000E-04	1.000E-04	10.00	18.00	4	A
4-Methyl-1-pentene	Q	Q	Q	1.000E-04	1.000E-04	QN	Q	ட	u.
Cyclopentane	5.000E-04	5.000E-04	1.000E-04	1.000E-04	1.000E-04	5.00	5.00	В	В
2,3-Dimethylbutane	4.000E-04	4.000E-04	4.000E-04	1.000E-04	1.000E-04	1.00	4.00	۵	ပ
cis-4-Methyl-2-pentene	2	Q	2	1.000E-04	1.000E-04	Q	Q	ட	ш
2-Methylpentane	1.300E-03	1.300E-03	8.000E-04	1.000E-04	1.000E-04	1.63	13.00	٥	A
3-Methylpentane	1.200E-03	1.200E-03	7.000E-04	1.000E-04	1.000E-04	1.71	12.00	۵	A
2-Methyl-1-pentene	Q	2	Q	1.000E-04	1.000E-04	ND	QN	ı	ட
1-Hexene	4.950E-03	4.950E-03	Q	1.000E-04	1.000E-04	10.00	49.50	A	A
n-Hexane	1.950E-03	1.950E-03	8.000E-04	1.000E-04	1.000E-04	2.44	19.50	ပ	A
trans-2-Hexene	2	ND	ON	1.000E-04	1.000E-04	QN	QN.	Ш	ш
2-Methyl-2-pentene	2	ND	ON	1.000E-04	1.000E-04	QN	QN	压	ш.
cis-2-Hexene	Q	Q	ON	1.000E-04	1.000E-04	ND	QN	F	u.
Methylcyclopentane	7.000E-04	7.000E-04	4.000E-04	1.000E-04	1.000E-04	1.75	7.00	D	8
2,4-Dimethylpentane	1.150E-03	1.150E-03	9.000E-04	1.000E-04	1.000E-04	1.28	11.50	۵	A
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TABLE A-5. AEC - VOC DATA EVALUATION FOR 155 mm ILLUMINATION ROUND TEST (1 APRIL 1998)

Compound (a) Run I, mg/m³ Run I, Ru	5	mg/m³ 1.000E-04 1.000E-04		T		Background	20,000,100.2
team 4,770E-02 4,770E-02 team 4,770E-02 4,770E-02 team 7,000E-04 7,000E-04 team 7,000E-04 7,000E-04 althogenation 2,100E-03 2,100E-03 timethylpentane 5,500E-03 2,100E-03 timethyl-1-pentene 1,100E-03 1,100E-03 timethyl-2-pentene 1,100E-03 1,100E-03 cyclohaxane 1,100E-03 1,100E-03 rimethyl-2-pentene 1,100E-03 1,100E-03 rimethyl-3-pentene 1,100E-03 1,100E-03 rimethyl-4-pentene 1,100E-03 1,100E-03 rimethyl-4-pentene 1,100E-03 1,100E-03 rimethyl-6-pentene 1,100E-03 1,100E-03 rimethylpentane 1,100E-03 1,100E-03 rimethylpentane 1,000E-04 7,500E-04 rimethylpentane 1,000E-03 1,000E-03 rimethylpentane 2,000E-04 1,000E-03 rimethylpentane 2,000E-04 1,000E-03 rimethylpentane 2,000		1.000E-04 1.000E-04	mg/m³	Criteria	Criteria	Notes	Notes
1000000000000000000000000000000000000		1.000E-04	1.000E-04	43.36	477.00	A	A
Content			1.000E-04	3.50	7.00	၁	В
nethylpentane 2.100E-03 2.100E-03 pylbexane 9.000E-04 9.000E-04 rimethylpentane 5.500E-03 1.100E-03 rimethylpentane 1.100E-03 1.100E-03 rimethyl-1-pentene 1.100E-03 1.100E-03 rimethyl-2-pentene 1.100E-03 1.100E-03 rimethyl-2-pentene 4.500E-04 3.500E-04 rimethylpentane 1.050E-03 1.050E-04 rimethylpentane 1.050E-03 1.050E-04 rimethylpentane 1.050E-03 1.050E-04 nethylpentane ND ND rimethylpentane 1.050E-04 ND rimethylpetane 1.050E-03 1.050E-04 rimethylpetane 1.000E-04 0.00E-04 rimethylpetane 6.000E-03 1.000E-04 rimethylpetane 6.000E-03 2.450E-03 rimethylbenzene 7.000E-03 3.300E-03 rimethylbenzene 8.000E-03 3.000E-04 rimethylbenzene & sec-Butylbenzene 7.000E-04 4.000E-04 rimeth		1.000E-04	1.000E-04	1.50	00.9	۵	8
ylbexane 9,000E-04 9,000E-03 rimethylpentane 1,100E-03 1,100E-03 ane 1,100E-03 1,100E-03 imethyl-bentene 1,100E-03 1,100E-03 cyclohexane 1,100E-03 1,100E-03 rimethyl-2-pentene 4,500E-04 4,500E-04 nethylhexane 7,500E-04 7,500E-04 nethylhexane 1,360E-02 1,360E-03 nethylhexane 1,360E-03 1,360E-04 nethylhexane 1,000E-04 7,500E-04 hexane ND ND hexane ND ND nethylhexane 1,000E-04 3,000E-04 hexane ND ND nne & D.Xylene 1,000E-03 1,000E-03 nne & D.Xylene 1,000E-03 1,000E-03 nne & D.Xylene 2,450E-03 3,000E-04 nne & D.Xylene 1,000E-03 3,000E-03 nne & D.Xylene 1,000E-03 3,000E-03 nne & D.Xylene 1,000E-03 1,000E-03 ne & D.Xylene		1.000E-04	1.000E-04	1.11	21.00	D	¥
finnethylpentane 5.500E-03 5.500E-03 ane 1.100E-03 1.100E-03 finnethyl-t-pentene 1.100E-03 1.100E-03 finnethyl-t-pentene 1.100E-03 1.100E-03 nethylhexane 7.500E-04 7.500E-04 rimethylexane 7.500E-04 7.500E-04 rimethylexane 7.500E-04 7.500E-04 rimethylexane 7.500E-04 7.500E-04 nethylhexane 7.500E-04 7.500E-04 nethylhexane ND ND nethylheptane ND ND nethylheptane ND ND nethylheptane ND ND rimethylhexane ND ND rimethylhexane 0.00E-04 0.00E-04 rimethylhexane 0.00E-03 0.00E-04 rimethylherzene 0.00E-04 0.00E-04 rimethylbenzene 0.00E-04 0.00E-04 rimethylbenzene 0.00E-04 0.00E-04 rimethylbenzene 0.00E-04 0.00E-04 rimethylbenz		1.000E-04	1.000E-04	2.25	9.00	၁	8
ane 1.100E-03 1.100E-03		1.000E-04	1.000E-04	1.49	55.00	D	A
rimethyl-1-pentene ND ND ND ND oyclohexane 1.100E-03 1.100E-03 1.100E-03 1.100E-03 1.100E-03 1.100E-04 1.200E-04 1.2		1.000E-04	1.000E-04	3.67	11.00	၁	A
rimethylbenzene 1.100E-03 1.100E-03		1.000E-04	1.000E-04	ND	QN	F	L.
ND ND nethyll-2-pentene ND ND nethyllexane 4.500E-04 4.500E-04 rimethylpexane 7.500E-04 7.500E-03 rimethylperitane 1.050E-03 1.050E-03 nethyllexane 1.050E-04 2.000E-04 poperation ND ND nethylleptane ND ND nethylleptane ND ND rimethylibexane ND ND rimethylibexane 1.000E-04 3.000E-04 rimethylibexane ND ND rimethylibexane ND ND rimethylibexane 1.000E-03 1.000E-03 ne A.500E-03 2.450E-03 2.450E-03 and ND ND anne ND ND ND Albenzene 7.000E-04 7.000E-04 rimethylbenzene 8.000E-04 7.000E-04 rimethylbenzene 8.000E-04 7.000E-04 rimene ND ND ND		1.000E-04	1.000E-04	5.50	11.00	В	A
nethylhexane 4.500E-04 4.500E-04 rimethylhexane 7.500E-04 7.500E-04 rimethylhexane 1.050E-03 1.050E-03 nethylhexane 2.000E-04 2.000E-04 nethylhexane 2.000E-04 3.000E-04 hexane ND ND nethylheptane ND ND nethylheptane ND ND rimethylhexane ND ND ne & p-Xylene ND ND <td></td> <td>1.000E-04</td> <td>1.000E-04</td> <td>QN</td> <td>QN</td> <td>F</td> <td>ч</td>		1.000E-04	1.000E-04	QN	QN	F	ч
1.550E-04 7.500E-04 7.500E-04 7.500E-03 1.050E-03 1.050E-03 1.050E-03 1.050E-03 1.050E-02 1.050E-04 1.050E-04 1.050E-04 1.050E-04 1.000E-04 1.050E-03 1.000E-04 1.050E-04 1.050E-03 1.000E-04 1.000E-04 1.050E-03 1.000E-04 1.00		1.000E-04	1.000E-04	1.50	4.50	D	ပ
rimethylpentane 1.050E-03 1.050E-03 enethylpentane 1.360E-02 1.360E-02 nethylhexane 2.000E-04 2.000E-04 ylheptane ND ND hexane ND ND nethylheptane ND ND nethylheptane ND ND nethylheptane ND ND ciohexane ND ND ciohexane ND ND nethylheptane ND ND ciohexane ND ND nethylhenzene 2.450E-03 2.450E-03 nethylhenzene 6.000E-04 8.000E-04 innethylbenzene 7.500E-04 7.500E-04 innethylbenzene 7.000E-03 7.000E-04 innethylbenzene 7.000E-04 7.000E-04 innethylbenzene 8.000E-04 7.000E-04 innethylbenzene 7.000E-03 7.000E-04 innethylbenzene ND ND innethylbenzene ND ND		1.000E-04	1.000E-04	1.88	7.50	D	В
enethylhexane 1.360E-02 1.360E-02 nethylhexane 2.000E-04 2.000E-04 ylheptane ND ND hexane ND ND nethylheptane ND ND nethylhexane ND ND rimethylhexane 0.000E-04 6.000E-04 rimethylhexane ND ND rimethylhexane 2.100E-03 3.300E-03 rimethylhersene 6.000E-04 6.000E-04 rimethylbenzene 8.000E-04 7.500E-04 rimethylbenzene 8.000E-04 7.000E-04 rimethylbenzene 8.000E-04 4.000E-04 rimethylbenzene 8.000E-04 4.000E-04 rimethylbenzene ND ND rimethylbenzene ND ND rimethylbenzene ND ND <		1.000E-04	1.000E-04	1.17	10.50	٥	A
nethylhexane 2.000E-04 2.000E-04 ylheptane 3.000E-04 3.000E-04 hexane ND ND nethylheptane ND ND rimethylhexane 1.000E-03 1.000E-04 rimethylhexane 1.000E-03 1.000E-04 rimethylhexane ND ND rimethylhexane 2.100E-03 2.100E-04 rimethylhexane 2.100E-03 3.300E-03 ne & p-Xylene ND ND ne & p-Xylene ND ND ne & p-Xylene 2.450E-03 2.450E-03 ne & p-Xylene ND ND ne & p-Xylene ND ND ne & p-Xylene ND ND ne & p-Xylene 3.300E-03 2.450E-03 ne & p-Xylene ND ND ne & p-Xylene <	_	1.000E-04	1.000E-04	4.53	136.00	၁	A
yiheptane 3.000E-04 3.000E-04 hexane ND ND rimethylhexane 1.000E-03 1.000E-03 rimethylhexane 1.000E-03 1.000E-04 ne ND ND snzene 2.100E-03 2.100E-03 and	_	1.000E-04	1.000E-04	0.50	2.00	F	ပ
hexane ND ND nethylheptane ND ND rimethylhexane 1.000E-03 1.000E-03 ne 6.000E-04 6.000E-04 richexane ND ND nne & p-Xylene 2.100E-03 2.100E-03 nne & p-Xylene 3.300E-03 3.300E-03 nne & p-Xylene ND ND nne ND ND nne ND ND nne ND ND ylbenzene 7.500E-04 7.500E-04 ylbenzene 8.000E-04 7.500E-04 ylbenzene 8.000E-04 7.500E-03 rimethylbenzene 8.000E-04 7.000E-04 rimethylbenzene 8.000E-04 7.000E-04 rimethylbenzene 8.000E-04 7.000E-04 rimethylbenzene ND ND rimene ND ND rimene ND ND rimene ND ND rimene ND ND		1.000E-04	1.000E-04	3.00	3.00	ပ	ပ
nethylheptane ND ND rimethylheptane 1.000E-03 1.000E-03 ne 6.000E-04 6.000E-04 ncolexane ND ND ne & p-Xylene ND ND ne ND ND ne 2.450E-03 2.450E-03 ne 2.450E-03 2.450E-03 ne 2.450E-03 2.450E-03 ne ND ND ne ND ND ND ND ND ylbenzene 7.500E-04 7.500E-04 ylbenzene 8.000E-04 8.000E-04 rinethylbenzene 8.000E-04 7.000E-04 rinethylbenzene 8.500E-03 1.050E-03 rinethylbenzene 8.000E-04 7.000E-04 rinethylbenzene 8.000E-04 7.000E-04 rinene ND ND rinene ND ND rinene ND ND rinene ND ND rinene<		1.000E-04	1.000E-04	ND	QN	F	u.
rimethylhexane 1.000E-03 1.000E-04 6.000E-04 6.000E-04 6.000E-04 6.000E-04 6.000E-04 6.000E-04 6.000E-03 3.300E-03 3.300E-03 3.300E-03 3.300E-03 3.300E-03 Sune & p-Xylene 2.450E-03 Sune & p-Xylene 2.4		1.000E-04	1.000E-04	ND	QN	F	ш
ne 6.000E-04 6.000E-04 rciohexane ND ND nrzene 2.100E-03 2.100E-03 ne & p-Xylene 3.300E-03 3.300E-03 ne 2.450E-03 3.300E-03 ne 2.450E-03 2.450E-03 ne 6.000E-04 6.000E-04 ne 6.000E-04 6.000E-04 ne 7.500E-04 7.500E-04 nobence 7.500E-04 7.500E-04 ninethylbenzene 8.000E-04 8.000E-04 nimethylbenzene 8.000E-04 7.000E-04 nimethylbenzene 8.000E-04 7.000E-04 noben-04 4.000E-04 4.000E-04 noben-04 4.000E-04 4.000E-04 noben-04 4.000E-04 4.000E-04 noben-04 1.050E-03 3.650E-03 noben-04 1.000E-04 4.000E-04 noben-04 1.000E-04 1.000E-04 noben-04 1.000E-04 1.000E-04 nobn-04 1.000E-04 1.000E-04		1.000E-04	1.000E-04	5.00	10.00	8	A
ND ND richohexane ND ND anzene 2.100E-03 2.100E-03 ane 2.100E-03 3.300E-03 ne ND ND ne 2.450E-03 2.450E-03 ane 2.450E-03 2.450E-03 ane ND ND Vibenzene 7.500E-04 7.500E-04 Vibenzene 7.500E-04 7.500E-04 Vibenzene 8.000E-04 7.500E-04 rimethylbenzene 8.000E-04 8.000E-04 rimethylbenzene 8.000E-04 7.000E-04 rimethylbenzene 7.000E-04 7.000E-04 rimethylbenzene 3.650E-03 3.650E-03 rimethylbenzene ND ND none ND ND rimethylbenzene ND ND none ND ND rimethylbenzene ND ND none ND ND rCarene ND ND none		1.000E-04	1.000E-04	00.9	00'9	8	В
ance & p. Xylene		1.000E-04	1.000E-04	ND	QN	Ł	ட
ne & p-Xylene 3.300E-03 3.300E-03 ne ND ND ne 2.450E-03 2.450E-03 ne 2.00E-04 0.00E-04 nb ND ND ribenzene 7.500E-04 7.500E-04 ribenzene 3.400E-03 3.400E-03 rimethylbenzene 8.000E-04 8.000E-04 rimethylbenzene 8.000E-04 7.000E-04 rimethylbenzene 7.000E-04 7.000E-04 rimethylbenzene 3.650E-03 3.650E-03 rimethylbenzene ND ND rimethylbenzene NO ND rimene ND ND rimene ND ND r.Carene ND ND r.Carene ND ND romene 7.000E-04 7.000E-04		1.000E-04	1.000E-04	7.00	21.00	В	۷
ND ND		1.000E-04	1.000E-04	2.36	33.00	S	A
ne 2.450E-03 2.450E-03 ane 6.000E-04 6.000E-04 ND ND ND ylbenzene 7.500E-04 7.500E-04 ylbenzene 7.500E-04 7.500E-03 ylbenzene 8.000E-04 8.000E-03 dkoluene 1.050E-03 1.050E-03 rimethylbenzene 8.ec-Butylbenzene 7.000E-04 7.000E-04 rimethylbenzene 8.ec-Butylbenzene 4.000E-04 7.000E-04 rimene ND ND ND rinene ND ND ND ricarene ND ND ND		1.000E-04	1.000E-04	<u>Q</u>	Q	L	ட
Section		1.000E-04	1.000E-04	4.90	24.50	ပ	A
ND ND ylbenzene 7.500E-04 7.500E-04 ylbenzene 7.500E-04 7.500E-04 Itoluene 3.400E-03 3.400E-03 finethylbenzene 8.000E-04 1.050E-03 rimethylbenzene & sec-Butylbenzene 7.000E-04 7.000E-04 rimethylbenzene & sec-Butylbenzene 3.650E-03 3.650E-03 nnene ND ND ND ND ND inene ND ND r.Carene ND ND none ND ND none 7.000E-04 7.000E-04		1.000E-04	1.000E-04	10.00	6.00	A	В
yibenzene 7.500E-04 7.500E-04 Itoluene 3.400E-03 3.400E-03 Itoluene 8.000E-04 8.000E-04 Inmethybenzene 1.050E-03 1.050E-03 Itinethybenzene & sec-Butylbenzene 3.650E-03 3.650E-03 Inmethybenzene & sec-Butylbenzene 4.000E-04 4.000E-04 Iniene ND ND Iniene ND ND Incene ND ND		1.000E-04	1.000E-04	QN	QN	ட	ட
Itoluene 3.400E-03 3.400E-03 Itoluene 8.000E-04 8.000E-04 Imethylbenzene 1.050E-03 1.050E-03 Itoluene 7.000E-04 7.000E-04 Inmethylbenzene & sec-Butylbenzene 3.650E-03 3.650E-03 ane ND ND Pinene ND ND Inene ND ND		1.000E-04	1.000E-04	3.75	7.50	O	В
vitoluene 8.000E-04 8.000E-04 rimethylbenzene 1.050E-03 1.050E-03 Itoluene 7.000E-04 7.000E-04 rimethylbenzene & sec-Butylbenzene 3.650E-03 3.650E-03 ane ND ND Pinene ND ND inene ND ND -Carene ND ND inene ND ND -Carene ND ND inene ND ND inene ND ND inene ND ND		1.000E-04	1.000E-04	11.33	34.00	A	A
rimethylbenzene 1.050E-03 1.050E-03 Itoluene 7.000E-04 7.000E-04 rimethylbenzene & sec-Butylbenzene 3.650E-03 3.650E-03 ane ND ND Pinene ND ND inene ND ND		1.000E-04	1.000E-04	4.00	8.00	ပ	æ
Itoluene 7.000E-04 7.000E-04 rimethylbenzene & sec-Butylbenzene 3.650E-03 3.650E-03 Pinane ND ND ND Pinane ND ND ND inene ND ND ND -Carene ND ND ND nonne ND ND ND nonne 7.000E-04 7.000E-04	1	1.000E-04	1.000E-04	5.25	10.50	8	A
rimethylbenzene & sec-Butylbenzene 3.650E-03 3.650E-03 4.000E-04 4.000E-04 Pinane ND ND Inene ND ND -Carene ND ND Inene 7.000E-04 7.000E-04		1.000E-04	1.000E-04	7.00	7.00	В	В
ane 4.000E-04 4.000E-04 Pinene ND ND inene ND ND -Carene ND ND inene ND ND inene 7.000E-04 7.000E-04		1.000E-04	1.000E-04	9.13	36.50	8	∢
Pinene ND ND inene ND ND -Carene ND ND inene 7.000E-04 7.000E-04		1.000E-04	1.000E-04	10.00	4.00	A	ပ
inene ND ND -Carene ND ND inene 7.000E-04 7.000E-04		1.000E-04	1.000E-04	QN	QN	Ŧ	ட
-Carene ND ND ND nonene 7.000E-04 7.000E-04		1.000E-04	1.000E-04	QN	Q	u.	ப
nene ND ND ND 7.000E-04 7.000E-04		1.000E-04	1.000E-04	QN	QN	F	ц
7.000E-04 7.000E-04		1.000E-04	1.000E-04	ND	QN	F	L
	_	1.000E-04	1.000E-04	1.00	7.00	۵	Ф
ON ON		1.000E-04	1.000E-04	ND	Q	Щ	L.
omethane 1.579E-03 1.579E-03 1.50	_	4.992E-04	4.992E-04	1.05	3.16	ا ۵	ال
Methylchloride ND ND ND		2.080E-04	2.080E-04	Q	2	_	1

TABLE A-5. AEC - VOC DATA EVALUATION FOR 155 mm ILLUMINATION ROUND TEST (1 APRIL 1998)

	Average	Average	Average Background -	Average Maximum Detection Limit -	Average Minimum Detection Limit -	Background	Minimum Detection Limit	Background	Minimum Detection Limit
Compound (a)	Concentration - Run 1, mg/m³	Concentration - Run 1; mg/m³	Concentration, mg/m³	Concentration, mg/m³	Concentration, mg/m²	Evaluation Criteria	Evaluation Criteria	Evaluation Notes	Evaluation
Dichlorotetraftuoroethane	QN	QN	QN	7.114E-04	7.114E-04	QN	ON	L	ш
Chloroethene	9	Q	QN	2.621E-04	2.621E-04	QN	ND	Ь	Н
1,3-Butadiene	S.	QN	QN	2.246E-04	2.246E-04	QN	QN	L	Ш
Methylbromide	9	QN	Q	3.952E-04	3.952E-04	ND	QN	ட	ш
Ethylchloride	9	QN	Q	2.683E-04	2.683E-04	ON	QN	ட	ш
Trichloromonofluoromethane	2.526E-03	2.526E-03	2.515E-03	5.699E-04	5.699E-04	1.00	4.43	D	ပ
Vinvlidenechloride	2	QN	QN	4.035E-04	4.035E-04	QN	QN	Ŧ	٦.
Methylenechloride	7.081E-01	7.081E-01	2.044E-03	3.536E-04	3.536E-04	346.35	2002.42	Α	Α
Allylchloride	QN	QN	QN	3.182E-04	3.182E-04	DN	ND	ட	щ
1,1,2-Trichloro-1,2,2-trifluoroethane	8.568E-04	8.568E-04	8.583E-04	7.821E-04	7.821E-04	1.00	1.10	ட	۵
1,1-Dichloroethane	QN	S	Q	4.118E-04	4.118E-04	ON	ON	ш	ட
1,2-Dichloroethene	Q	S	Q	4.035E-04	4.035E-04	ON	ON	ட	щ
Chloroform	Q	S	Q	4.950E-04	4.950E-04	QN	QN	F	F
1.2-Dichloroethane	2	QN	QN	4.118E-04	4.118E-04	2	QN	F	F
Methylchloroform	3.655E-04	3.655E-04	3.777E-04	5.533E-04	5.533E-04	0.97	99.0	IL.	ш
Benzene	4.852E-02	4.852E-02	1.119E-03	3.245E-04	3.245E-04	43.36	149.52	A	A
Carbontetrachloride	8.473E-04	8.473E-04	7.746E-04	6.406E-04	6.406E-04	1.09	1.32	۵	۵
1.2-Dichloropropane	2	QN	QN	4.701E-04	4.701E-04	Q	Q	ட	ш.
Trichloroethylene	2	QN	QN	5.533E-04	5.533E-04	Q	Q	Ŀ	4
cis 1.3-Dichloro-1-propene	2	Q	QN	4.618E-04	4.618E-04	Q	QN	4	4
trans 1,3-Dichloro-1-propene	Q	QN.	9	4.618E-04	4.618E-04	QN	QN	ц	F
1,1,2-Trichloroethane	S	QN	9	5.533E-04	5.533E-04	QN	ON	Ŧ	Ш
Toluene	1.383E-02	1.383E-02	3.051E-03	3.827E-04	3.827E-04	4.53	36.14	ပ	A
1,2-Dibromoethane	Q	Q.	9	7.821E-04	7.821E-04	QN	DN	Ŧ	ш
Perchloroethylene	QV	g	9	6.906E-04	6.906E-04	QN	ND	u.	ட
Chlorobenzene	2	QN	QN	4.701E-04	4.701E-04	QN	ND	ц.	ட
Ethylbenzene	3.224E-03	3.224E-03	4.606E-04	6.656E-04	6.656E-04	00'2	4.84	В	O
m&p-Xylene	3.197E-03	3.197E-03	1.321E-03	4.410E-04	4.410E-04	2.42	7.25	ပ	8
Styrene	QN	g	Ð	4.326E-04	4.326E-04	QN	ON	F	ı.
1,1,2,2-Tetrachloroethane	Q	9	QN	6.989E-04	6.989E-04	QN	ND	F	u.
o-Xylene	2.492E-03	2.492E-03	5.086E-04	4.410E-04	4.410E-04	4.90	5.65	၁	8
p-Ethyltoluene	4.888E-04	4.888E-04	Q	4.992E-04	4.992E-04	10.00	0.98	Α	u.
1,3,5-Trimethylbenzene	2.760E-04	2.760E-04	Q	4.992E-04	4.992E-04	10.00	0.55	Α	ı.
1,2,4-Trimethylbenzene	9.123E-04	9.123E-04	4.522E-04	4.992E-04	4.992E-04	2:02	1.83	၁	٥
Benzylchloride	2	QV	QN	5.283E-04	5.283E-04	QN	ON	Ŧ	ц.
m-Dichlorobenzene	S	Q	Q	6.115E-04	6.115E-04	QN	NO	F	ц.
p-Dichlorobenzene	S	QV	QN	6.115E-04	6.115E-04	QN	QN	ı.	ட
o-Dichlorobenzene	S	9	Q	6.115E-04	6.115E-04	QN	ND	IJ.	F
1,2,4-Trichlorobenzene	QN	Q	9	7.530E-04	7.530E-04	QN	ND	F	н
Hexachlorobutadiene	S	9	Q	1.086E-03	1.086E-03	QN	ND	Ŧ	Ł
Phenylacetylene	2.300E-03	2.300E-03	2	4.243E-04	4.243E-04	10.00	5.42	A	В
Indane	QN	QN	QN	4.909E-04	4.909E-04	QN	QN	u.	L.
2.3-Dihydro-1-methyl-1H-indene	QN	QN	QN	5.491E-04	5.491E-04	Q	Q	ட	ш

TABLE A-5. AEC - VOC DATA EVALUATION FOR 155 mm ILLUMINATION ROUND TEST (1 APRIL 1998)

	Average	Average	Average Background -	Average Maximum Detection Limit -	Average Minimum Detection Limit -	Background	Minimum Detection Limit	Background	Minimum Detection Limit
Compound (a)	Concentration - Run 1, mg/m³	Concentration - Run 1, mg/m³	Concentration, mg/m³	Concentration, mg/m³	Concentration, mg/m³	Evaluation Criteria	Evaluation Criteria	Evaluation Notes	Evaluation Notes
2,3-Dihydro-4-methyl-1H-indene	ND	QN	QN	5.491E-04	5.491E-04	QN.	QN	F	Ł
Naphthalene	9.705E-03	9.705E-03	3.067E-04	5.325E-04	5.325E-04	31.64	18.23	A	A
2-Methylnaphthalene	Q	2	ND	5.907E-04	5.907E-04	ON	ON	Ŧ	L.
1-Methylnaphthalene	QN	QN	ON	5.907E-04	5.907E-04	ON	QN	4	Я
Cyanogen	Q	Q	QN	2.163E-04	2.163E-04	ND	QN	F	IJ.
Methylnitrite	4.934E-03	4.934E-03	QN	2.538E-04	2.538E-04	10.00	19.44	Y	A
Acetonitrile	1.137E-02	1.137E-02	ND	1.706E-04	1.706E-04	10.00	69.99	Y	∀
Acrylonitrile	9.319E-03	9.319E-03	QN	2.205E-04	2.205E-04	10.00	42.27	∀	A
Nitromethane	5.091E-03	5.091E-03	QN	2.538E-04	2.538E-04	10.00	20.06	A	A
Propanenitrile	2.143E-03	2.143E-03	ON	2.288E-04	2.288E-04	10.00	9.37	A	В
2-Methylpropanenitrile	ON.	QN	QN	2.870E-04	2.870E-04	ND	QN	Ц	Ľ.
Pentanenitrile	2.369E-03	2.369E-03	QN	3.453E-04	3.453E-04	10.00	98.9	A	8
Hexanenitrile	2.798E-03	2.798E-03	Q	4.035E-04	4.035E-04	10.00	6.93	Α	В
Benzonitrile	6.814E-03	6.814E-03	QN	4.285E-04	4.285E-04	10.00	15.90	A	Α
2-Nitrophenol	8.901E-04	8.901E-04	QN	5.782E-04	5.782E-04	10.00	1.54	Α	٥
Acrolein	1.283E-02	1.283E-02	QN	2.330E-04	2.330E-04	10.00	55.06	A	A
Acetone	6.430E-02	6.430E-02	7.235E-03	2.330E-04	2.330E-04	8.89	276.01	В	Α
1-Hydroxy-2-propanone	Q	QN	ND	3.078E-04	3.078E-04	ND	QN	F	Ł
Furan	2.073E-03	2.073E-03	ND	2.829E-04	2.829E-04	10.00	7.33	A	В
2-Propanol	Q.	QQ	QN	2.496E-04	2.496E-04	ND	ON	ч	<u>.</u> ш.
2-Methylpropanal	2.207E-03	2.207E-03	QN	3.078E-04	3.078E-04	10.00	7.17	A	8
1-Propanol	QN	QN	Q	2.496E-04	2.496E-04	ND	QN	Ь	ш
Methacrolein	2.238E-03	2.238E-03	QV	2.912E-04	2.912E-04	10.00	7.69	٧	В
Methyl-vinyl Ketone	1.426E-03	1.426E-03	Q	2.912E-04	2.912E-04	10.00	4.90	Ą	၁
MIBE	6.468E-04	6.468E-04	5.544E-04	3.661E-04	3.661E-04	1.17	1.77	۵	۵
2,3-Butanedione	QN	Q	Q	3.578E-04	3.578E-04	2	Q	ш	u.
Butanai	1.530E-03	1.530E-03	Q	2.995E-04	2.995E-04	10.00	5.11	V	60
Z-Butanone	7.749E-03	7.749E-03	7.941E-04	2.995E-04	2.995E-04	9.76	25.87	В	4
Z-Metnyi-1,3-dioxolane	2	2	Q	3.661E-04	3.661E-04	Q	2	L.	ш
Z-iwetnyituran	ON LOS	ON LOS	Q S	3.411E-04	3.411E-04	QN	Q.	u.	L.
terranyororuran	2.440E-04	2.440E-04	2 2	2.995E-04	2.995E-04	10.00	0.81	V.	L.
Applie Apid	F 240E 03	F 240E 02	NO TOTAL	2.912E-04	2.912E-04	00:01	20.00	V	n
1-Butanol	ND ND	ND ND	NO NO	2 078E-04	2 0795-04	4.74	86.02 ND	یا د	< L
2-Pentanone	1.577E-03	1.577E-03	GN	3.578F-04	3.578F-04	10.00	441	- 4	
Pentanal	4.933E-03	4.933E-03	1.610E-03	3.578E-04	3.578E-04	3.06	13.79	c	A
1,4-Dioxane	QV	QN	QN	3.661E-04	3.661E-04	Q	Q) L	L
Methy! Methacrylate	QN	QV	QN	4.160E-04	4.160E-04	Q	9	ш	L
Cyclopentanone	7.454E-02	7.454E-02	QV	3.494E-04	3.494E-04	10.00	213.30	A	A
Hexanal	1.607E-03	1.607E-03	1.206E-03	4.160E-04	4.160E-04	1.33	3.86	۵	ပ
2-Furaldehyde	1.348E-02	1.348E-02	QN	3.994E-04	3.994E-04	10.00	33.75	A	A
Cyclohexanone	Q	Q	QN	4.077E-04	4.077E-04	Q	QN	F	ш
Heptanal	1.567E-03	1.567E-03	9.731E-04	4.742E-04	4.742E-04	1.61	3.30	۵	ပ

TABLE A-5. AEC - VOC DATA EVALUATION FOR 155 mm ILLUMINATION ROUND TEST (1 APRIL 1998)

	3 mg/m³ 6.4.909E-04 4.909E-04 6.3 5.242E-04 4.909E-04 4.992E-04 6.392E-04 6.	Average Maximum Background - Detection Limit - Concentration, Concentration, ND 4.309E-04 4.461E-04 5.242E-04 1.464E-03 1.464E-03 1.464E-03 1.492E-04 ND 4.992E-04 ND 4.992E-04 ND 4.992E-04 ND 4.992E-04 ND 4.992E-04 1.588E-04 1.188E-03 1.188E-04 1.188E-03 1.188E-04	Average Minimum Detection Limit - Background Detection Limit Concentration, Evaluation Criteria Criteria Notes Notes	QN	10E-04 13.59 19.93 A A	42E-04 ND ND F F	25E-04 1.36 3.74 D C	39E-04 ND F F	92E-04 ND F F	10.00	1.34	90E-04 1.46 4.88 D . C	96E-04 10.68 6.80 A B	62E-04 20.88 93.68 A A	J 7 78 79 0	0.01
		4.461E-04 1.464E-03 ND ND ND 2.037E-03 2.172E-03 1.588E-04 1.418E-03 ND				E-04 5.242E-04	E-04 5.325E-04	E-04 4.909E-04	E-04 4.992E-04	E-04 4.992E-04	E-04 5.907E-04	E-04 6.490E-04	E-04 2.496E-04	E-04 3.162E-04	E-04 3.494E-04	5-04 3 910F-04
89 89 89 89 89 89 89 89 89 89 89 89 89 8	Run 1, mg/m³ ND 8.789E-03 ND 1.990E-03 ND ND ND ND ND ND 1.787E-03 2.728E-03 3.168E-03 1.697E-03 2.962E-02 1.331E-03 ND ND ND ND ND ND ND ND ND N		Compound (a)	2-Butoxyethanol	Benzaldehvde	6-Methyl-5-hepten-2-one	Octanal	Benzofuran	2-Ethyl-1-hexanol	Acetophonone	Nonanal	Decanal	Carbonyl Sulfide	Carbon Disulfide	Thiophene	Discoplation of the

a Compounds in bold represent duplicate values.

A = Identified as a contaminant (greater than or equal to 10 times background or minimum MQL)

B = Likely contaminant (less than 10 and greater than or equal to 5 times background or minimum MQL)

C = Probable contaminant (less than 5 and greater than or equal to 2 times background or minimum MQL)

D = Measured, but accuracy or presence questionable (less than 2 and greater than or equal to 1 times background or minimum MQL)

F = Not considered a contaminant (less than 1 times background or minimum MQL)

TABLE A-6. AEC - VOC RUN NO. 1 DATA FOR 155 mm ILLUMINATION ROUND TEST (1 APRIL 1998)

Compound (a)	Molecular Weight	Average Concentration - Run 1, ppbv	Average Concentration - Run 1, mg/m³	Background - Concentration, mg/m³	Background Corrected Concentration - Run 1, mg/m³	Dilution Correction Factor (b), %	Corrected Concentration - Run 1, mg/m³	Initial Plume Volume, ft³	Sample Total Material - Run 1, lb	Number of	Corrected Emission Factor - Run 1, lb/item
() () () () () () () () () ()											
TNMHC		ļ,	7.089E-01	3.620E-02	6.727E-01	0.9264	7.261E-01	33,614	1.524E-03	-	1.524E-03
(a)OV) abuncancy cineral elitelov											
Ethane	30	4.447	5.550E-03	2.500E-03	3.050E-03	0.9264	3.292E-03	33.614	6.909E-06	1	6 909F-06
Ethylene	28	106.714	1.243E-01	2.000E-04	1.241E-01	0.9264	1.340E-01	33.614	2.811E-04	-	2.811E-04
Acetylene	26	105.399	1.140E-01	7.000E-04	1.133E-01	0.9264	1.223E-01	33,614	2.567E-04	-	2.567E-04
Propane	44	9.533	1.745E-02	8.000E-04	1.665E-02	0.9264	1.797E-02	33,614	3.772E-05	1	3.772E-05
Propene	42	10.789	1.885E-02	QN	1.885E-02	0.9264	2.035E-02	33,614	4.270E-05	1	4.270E-05
i-Butane i-Butana	58	0.311	7.500E-04	1.000E-04	6.500E-04	0.9264	7.016E-04	33,614	1.472E-06	-	1.472E-06
1-Butene	95	3.756	8 750F-03	2 2	8.750E-02	0.9264	9.445E-02	33,614	1 9825-05	-	2.424E-U5
1,3-Butadiene	25	QN	QN	2	ND	0.9264	ND ND	33.614	ND	-	ND 2002
n-Butane	58	1.492	3.600E-03	4.000E-04	3.200E-03	0.9264	3.454E-03	33,614	7.249E-06		7.249E-06
trans-2-Butene	99	1.588	3.700E-03	ON	3.700E-03	0.9264	3.994E-03	33,614	8.381E-06	1	8.381E-06
2,2-Dimethylpropane	72	QN	QN	Q	ON	0.9264	ON	33,614	QN	1	QN
cis-2-Butene	26	0.665	1.550E-03	QN	1.550E-03	0.9264	1.673E-03	33,614	3.511E-06	1	3.511E-06
3-Methyl-1-butene	0/1	0.137	4.000E-04	Q	4.000E-04	0.9264	4.318E-04	33,614	9.061E-07	-	9.061E-07
rrentane	2/2	0.334	1.000E-03	5.000E-04	5.000E-04	0.9264	5.397E-04	33,614	1.133E-06	-	1.133E-06
2-Methyl-1-bidene	9 8	1.202	3.500E-03	2	3.500E-03	0.9264	3.778E-03	33,614	7.928E-06	-	7.928E-06
n-Pentane	2 2	0.568	1 700E-03	S OVE-O	1 100E-03	0.9264	1.011E-03	33,514	3.1715-06		3.1715-06
Isoprene	89	ON ON	ON CIN	2.000E-04	ND ND	0.9264	NO. 27-03	33,614	2.49ZE-06	-	Z.49ZE-UD
trans-2-Pentene	70	0.189	5.500E-04	Q	5.500E-04	0.9264	5.937E-04	33.614	1.246E-06	-	1.246E-06
cis-2-Pentene	70	0.137	4.000E-04	ON	4.000E-04	0.9264	4.318E-04	33,614	9.061E-07	-	9.061E-07
2-Methyl-2-butene	70	Q	QN	ON	ON	0.9264	QN	33,614	QN	1	QN
2,2-Dimethylbutane	98	QN	Q	1.000E-04	QN	0.9264	QN	33,614	QN	1	ND
Cyclopentene 4. Methyd 1. poptene	89 5	0.636	1.800E-03	9	1.800E-03	0.9264	1.943E-03	33,614	4.077E-06		4.077E-06
Cyclopentane	02	0.172	5.000E-04	1 000F-04	4 000F-04	0.9264	A 318F-04	33,614	ND 9 061E-07	-	ND P OE 4 E 07
2,3-Dimethylbutane	98	0.112	4.000E-04	4.000E-04	-5.421E-20	0.9264	ON ON	33,614	ON ON	-	ND
cis-4-Methyl-2-pentene	84	QN	QN	QN	ND	0.9264	QN	33,614	QN	-	QN
2-Methylpentane	86	0.363	1.300E-03	8.000E-04	5.000E-04	0.9264	5.397E-04	33,614	1.133E-06	1	1.133E-06
2-Methyl-1-pentene	8 8	ON ON	ND -03	V.000E-04	5.000E-04	0.9264	5.397E-04	33,614	1.133E-06		1.133E-06
1-Hexene	84	1.417	4.950E-03	Q	4.950E-03	0.9264	5.343E-03	33,614	1.121E-05	-	1.121E-05
n-Hexane	98	0.545	1.950E-03	8.000E-04	1.150E-03	0.9264	1.241E-03	33,614	2.605E-06	-	2.605E-06
trans-2-Hexene	84	Q	Q	QN	QN	0.9264	QN	33,614	QN	ļ	ND
2-Methyl-2-pentene	84	Q	2	Q	2	0.9264	2	33,614	QN	1	QN
Methylogoptana	2 2	ON C	7 000E	0000	ON	0.9264	ON	33,614	QN C	-	QN
2 4-Dimethylpentane	\$ 5	0.200	7.000E-04	4.000E-04	3.0001-04	0.9264	3.238E-04	33,614	6.796E-07	-	6.796E-07
Benzene	282	14 700	4 770E-03	3.000E-04	4 660E-04	0.3204	2.0930-04	33,014	3.003E-U/	- -	5.553E-U/
Cyclohexane	84	0.200	7 000E-04	2 000E-03	4.000E-02	0.9264	5.030E-02	33,614	1.0555-04	- -	1.055E-04
2-Methylhexane	100	0.144	6.000E-04	4.000E-04	2.000E-04	0.9264	2.159E-04	33,614	4.530E-07	-	4.530E-07
2,3-Dimethylpentane	100	0.505	2.100E-03	1.900E-03	2.000E-04	0.9264	2.159E-04	33,614	4.530E-07	-	4.530E-07
3-Methylhexane	100	0.216	9.000E-04	4.000E-04	5.000E-04	0.9264	5.397E-04	33,614	1.133E-06	-	1.133E-06
2,2,4-Trimethylpentane	114	1.160	5 500E-03	2 7005 02	* POOF 03	13000	4 040E	,,,,	00 1110		

TABLE A-6. AEC - VOC RUN NO. 1 DATA FOR 155 mm ILLUMINATION ROUND TEST (1 APRIL 1998)

		Average	Average	Background -	Background Corrected	Dilution	Corrected		Sample Total		Corrected Emission
Compound (a)	Molecular Weight	Concentration - Run 1, ppbv	Concentration Run 1, mg/m³	Concentration, mg/m ³	Concentration - Run 1, mg/m³	Correction Factor (b), %	Concentration - Run 1, mg/m³	Initial Plume Volume, ft	Material - Run 1, lb	Number of Items	Factor - Run 1, Ib/item
n-Heptane	100	0.264	1.100E-03	3.000E-04	8.000E-04	0.9264	8.636E-04	33,614	1.812E-06	1	1.812E-06
2,4,4-Trimethyl-1-pentene	112	ND	QN	ND	ND	0.9264	QN	33,614	Q	·	Q
Methylcyclohexane	86	0.270	1.100E-03	2.000E-04	9.000E-04	0.9264	9.715E-04	33,614	2.039E-06	-	2.039E-06
2,4,4-Trimethyl-2-pentene	112	QN	Q	Q	Q.	0.9264	QN	33,614	QN S	-	QN
2,5-Umethylhexane	114	0.035	4.500E-04	3.000=-04	1.500E-04	0.9264	1.019E-04	33,014	3.398E-07	- -	3.330E-07
2,4-Umetnyinexane	* .	0.130	1.3005-04	4.000E-04	3.300E-04	0.9264	1 6105.04	33,614	7.320E-07	-	3 308E-07
Toliana	8	3.554	1.050E-03	3.000E-03	1.300E-04	0.3204	1 144F-02	33,614	2.401E-05	-	2.401E-05
2.3-Dimethylbexane	114	0.042	2.000E-02	4.000E-04	-2.000E-04	0.9264	ON ON	33.614	QN	-	QN
2-Methylheptane	E	0.065	3.000E-04	1.000E-04	2.000E-04	0.9264	2.159E-04	33,614	4.530E-07	-	4.530E-07
3-Ethylhexane	114	QN	Q	Q	9	0.9264	QN	33,614	Q	-	QN
2,2-Dimethylheptane	128	QN	QN	QV	Q	0.9264	ON	33,614	QN	1	ND
2,2,4-Trimethylhexane	128	0.188	1.000E-03	2.000E-04	8.000E-04	0.9264	8.636E-04	33,614	1.812E-06	1	1.812E-06
n-Octane	114	0.127	6.000E-04	1.000E-04	5.000E-04	0.9264	5.397E-04	33,614	1.133E-06	1	1.133E-06
Ethylcyclohexane	112	8	Q	Q	Q	0.9264	QN	33,614	9	-	Q
Ethylbenzene	160	0.316	2.100E-03	3.000E-04	1.800E-03	0.9264	1.943E-03	33,614	4.077E-06	+	4.077E-06
m-Xylene & p-Xylene	98	0.748	3.300E-03	1.400E-03	1.900E-03	0.9264	2.051E-03	33,614	4.304E-06	-	4.304E-06
Styrene	\$	Q	ON	2	Q	0.9264	QN	33,614	Q		QN.
o-Xylene	90	0.556	2.450E-03	5.000E-04	1.950E-03	0.9264	2.105E-03	33,614	4.417E-06		4.417E-06
n-Nonane	128	0.113	6.000E-04	2	6.000E-04	0.9264	6.477E-04	33,614	1.359E-06		1.359E-06
I-Propytbenzene	120	QQ.	GN	ON CO	ON L	0.9264	ON S	33,614			ON LOS
n-Propyibenzene	021	0.150	7.500E-04	2.000E-04	5.500E-04	0.9264	5.93/E-04	33,514	1.240E-00		1.240E-00
p-Effylfoluene	027	0.581	3.400E-03	3.000E-04	3.100E-03	0.9264	3.346E-03	33,514	7.022E-06	-	7.0225-06
m-Ernyrouene	250	0.100	8.000E-04	2.000E-04	9.000E-04	0.9204	0.477104	33,014	1.359E-00	- -	1.33917-00
1,3,3-1 imemylbenzene	2 5	0.210	1.050 F	2.000E-04	0.300E-04	0.9204	9.1/20-04	33,014	1.9235-00	- ,	1.9235-00
o-etnyitoluene	120	0.140	7.000E-04	1.000E-04	6.000E-04	0.9264	6.477E-04	33,614	1.359E-06		1.359E-06
1,2,4-Trimethylbenzene & sec-Butylbenzene	120	0.731	3.650E-03	4.000E-04	3.250E-03	0.9264	3.508E-03	33,614	7.362E-06	-	7.362E-06
n-Decane	142	0.068	4.000E-04	Q	4.000E-04	0.9264	4.318E-04	33,614	9.061E-07	+	9.061E-07
alpha-Pinene	136	QN	QN	9	Q	0.9264	Q	33,614	9	-	Q
beta-Pinene	136	ND	QN	QN	QN	0.9264	QN	33,614	ON	-	QN
delta 3-Carene	136	Q	QN	Q	QN	0.9264	Q	33,614	Q	-	Q
d-Limonene	136	Q	Q	2	Q	0.9264	Q	33,614	Q	-	Q
MTBE	88	0.191	7.000E-04	7.000E-04	0.000E+00	0.9264	0.000E+00	33,614	0.000E+00	-	0.000E+00
Dishlorodiffuoromothono	202	ND 915	NO 4 5705 03	NO A SOUTE OF	ND 7 131E OF	0.9264	ND 2502 7	33,614	ND 4 645E 07	- -	ON P
Mathylchlorida	202	CN	NO SECO	NO E-US	V.131E-03	0.9264	ND-3/16-03	33,014	ND CIN	- -	1.013E-07
Dichlorotetraftuoroethane	3 5	S	ÇN.	2 5	2 2	0.9264	SS	33,614	2 2		2 2
Chloroethene	63	2	2	9	2	0.9264	Q	33.614	2	-	Q
1,3-Butadiene	54	QN	Q	Q	Q	0.9264	Q	33,614	Ð	-	Q
Methylbromide	92	QN	QN	2	Q	0.9264	QN	33,614	QV	-	2
Ethylchloride	64.5	QN	ON	QV	Q	0.9264	QN	33,614	QN	1	ND
Trichloromonofluoromethane	137	0.443	2.526E-03	2.515E-03	1.156E-05	0.9264	1.247E-05	33,614	2.618E-08	1	2.618E-08
Vinylidenechloride	97	Q	QN	ND	ND	0.9264	Q	33,614	Q	-	Q
Methylenechloride	82	200.242	7.081E-01	2.044E-03	7.060E-01	0.9264	7.621E-01	33,614	1.599E-03	-	1.599E-03
Allylchloride	76.5	S	QN	S	Q	0.9264	Q	33,614	Q	-	QN
1,1,2-Trichloro-1,2,2-trifluoroethane	188	0.110	8.568E-04	8.583E-04	-1.520E-06	0.9264	Q	33,614	2	-	Q
1,1-Dichloroethane	66	2	ON S	9	9	0.9264	2	33,614	2	-	Q
1,2-Uchloroemene	3,30	2 2	2 9	2 9	2 5	0.9264	2 2	33,514	2 9	- -	2 5
Chlorotorm	-12	Ŋ	N N	N D	ND	0.9264	DN.	33,614	I ON	-	ON

TABLE A-6. AEC - VOC RUN NO. 1 DATA FOR 155 mm ILLUMINATION ROUND TEST (1 APRIL 1998)

Compound (a) Monday Average (b) Average (b) Average (b) Compound (b)												
Compound (a) Weight (b) Convention (c) Convention (c			Average	Average	Background -	Background	Dilution	Corrected		Semple Total		Corrected
1.00 1.00	Compound (a)	Molecular Weight	Concentration - Run 1, ppbv	Concentration - Run 1, mg/m³	Concentration, mg/m³	Concentration - Run 1, mg/m³	Correction Factor (b), %	Concentration - Run 1, mg/m³	Initial Plume Volume, ft³	Material - Run 1, lb	Number of Items	Factor - Run 1, lb/ltem
13 10 10 10 10 10 10 10	1,2-Dichloroethane	66	2	QN	QN	QN	0.9264	2	33,614	Q	-	QN
1. 1. 1. 1. 1. 1. 1. 1.	Methylchloroform	133	0.066	3.655E-04	3.777E-04	-1.214E-05	0.9264	ON	33,614	QN	1	QN
15.50 1.50	Benzene	78	14.952	4.852E-02	1.119E-03	4.740E-02	0.9264	5.116E-02	33,614	1.074E-04	1	1.074E-04
1.12 N. D. D. N. D.	Carbontetrachloride	154	0.132	8.473E-04	7.746E-04	7.277E-05	0.9264	7.855E-05	33,614	1.648E-07	1	1.648E-07
1.12 N.D.	1,2-Dichloropropane	113	ND	ON	ON	ON	0.9264	ND	33,614	ON	1	QN
11 NO NO NO NO NO NO NO	Trichloroethylene	133	ND	ON	QN	QN	0.9264	ON	33,614	QN	1	QN
13 13 14 15 15 15 15 15 15 15	cis 1,3-Dichloro-1-propene	111	ON	QN	ON	ON	0.9264	ON	33,614	QN	1	QN
The control of the	trans 1,3-Dichloro-1-propene	111	QN	QN	QN	QN	0.9264	ON	33,614	QN	-	QN
non-contained 18 g 2	1,1,2-Trichloroethane	133	ND	QN	QN	QN	0.9264	ON	33,614	Q	-	QN
Particular Par	Toluene	92	3.614	1.383E-02	3.051E-03	1.078E-02	0.9264	1.164E-02	33,614	2.442E-05	1	2.442E-05
Operation of the control of	1,2-Dibromoethane	188	ON	ND	QN	QN	0.9264	ON	33,614	QN	1	QN
Any Company ND ND ND ND ORGEN ND	Perchloroethylene	166	QN	QN	QN	QN	0.9264	ON	33,614	QN	1	QN
Agenerate 160 0.448 3.224E-03 4.206E-04 2.705E-03 3.5614 2.00E-04 1 Agenerate 160 0.725 3.127E-03 4.20EG-04 2.70E-04 3.5614 4.00E-04 1 Agenerate 164 ND ND ND ND 0.0564 2.70E-03 3.3614 4.00E-04 1 Agenerate 164 ND <	Chlorobenzene	113	QN	ON	QN	QN	0.9264	ND	33,614	ON	1	QN
Very Computed 105 31197E-03 1,201E-03 1,670E-04 2,026-6 3,516-4 4,200E-06 1 Per Introduction of the computed 104 ND ND ND 1,201E-03 1,670E-04 2,026-6 3,516-4 4,020E-06 1 Princial computed 105 ND ND ND 4,020E-04 3,056-4 1,00E-09 3,516-4 1,00E-09 1 Inclinate plantage 170 0.0583 2,480E-04 ND 4,880E-04 3,056-4 1,00E-09 3,516-4 1,00E-09 3,516-4 1,00E-09 1,00E-09 3,516-4 1,00E-09 3,516-4 1,00E-09 3,516-4 1,00E-09 1,00E-09 3,516-4 1,00E-09 1,00E-09 3,516-4 1,00E-09 3,516-4 1,00E-09 3,516-4 1,00E-09 1,00E-09 3,516-4 1,00E-09 3,516-4 1,00E-09 1,00E-09 3,516-4 1,00E-09 1,00E-09 3,516-4 1,00E-09 1,00E-09 3,516-4 1,00E-09 1,00E-09 1,00E-09 3,516-4 1,00E-09	Ethylbenzene	160	0.484	3.224E-03	4.606E-04	2.763E-03	0.9264	2.983E-03	33,614	6.260E-06	1	6.260E-06
ND ND ND ND ND ND ND 33,614 ND 33,614 ND 17 Instituted inclination matter of the control o	m&p-Xylene	106	0.725	3.197E-03	1.321E-03	1.876E-03	0.9264	2.025E-03	33,614	4.250E-06	1	4.250E-06
Fige No December Fige	Styrene	104	QN	QN	QN	QN	0.9264	ON	33,614	ON	1	QN
The control of the color of t	1,1,2,2-Tetrachloroethane	168	ND	Q	QN	Q	0.9264	QN	33,614	ND	1	QN
Trimethylbertzene 120 0.0558 4.888E-04 ND 2.760E-04 0.9554 2.776E-04 33.614 1.107E-06 1.1010etee 1.20 0.0558 4.888E-04 ND 2.760E-04 0.9554 2.760E-04 0.9554 1.107E-06 1.1010eteeree 1.20 0.055 0.183 9.12E-04 4.60TE-04 0.9564 4.96EE-04 33.614 1.04TE-06 1.1010eteeree 1.47 ND ND ND ND 0.9564 ND 0.9564 0.9564 ND 1.107E-06 1.107E-0	Xylene	106	0.565	2.492E-03	5.086E-04	1.983E-03	0.9264	2.141E-03	33,614	4.493E-06	1	4.493E-06
Trimethyleactere 120 0.055 9.78E-04 4.026-44 0.02644 4.026-64 3.366-4 1.02E-05 1.00E-04 <	o-Ethyltoluene	120	0.098	4.888E-04	QN	4.888E-04	0.9264	5.276E-04	33,614	1.107E-06	-	1.107E-06
Trimple Trim	,3,5-Trimethylbenzene	120	0.055	2.760E-04	QN	2.760E-04	0.9264	2.979E-04	33,614	6.252E-07	1	6.252E-07
12	,2,4-Trimethylbenzene	120	0.183	9.123E-04	4.522E-04	4.601E-04	0.9264	4.966E-04	33,614	1.042E-06	_	1.042E-06
No.	Senzylchionoe	12/	2 9	2	2 2	ON S	0.9264	Q S	33,614	2	-	9
1.00	Dichlorobenzene	147	2 2	2 2	2 2	2 2	0.9264	2 2	33,614	2 2	- ,	2
Tricitoloberoame 181 ND	-Dichlorohenzene	147	2 5	2 2	2 2	2 2	0.3204	2 2	33,014	2 2	-	2 2
Proceeding	2.4-Trichlorobenzene	181	S	S	S	S CA	0.9264	2 5	33.614	2 2	-	2 2
region 102 0.542 2.300E-03 ND 2.300E-03 0.9264 2.48EE-03 3.514 ND 1 rydro-1-methyl-H-indene 132 ND ND ND ND ND ND 1 ND 1 rydro-1-methyl-H-indene 132 ND ND ND ND ND 1 1 ND 1 rydro-1-methyl-H-indene 132 ND ND ND ND ND 1 ND 1 1 rydro-1-methyl-H-indene 132 ND ND ND ND ND 1 ND 1 ND 1 1 ND 1 ND 1 ND ND 1 1	lexachlorobutadiene	261	2	9	QN	QN	0.9264	2	33,614	2	-	2
118 ND ND ND ND O.9264 ND 33.614 ND 1	Phenylacetylene	102	0.542	2.300E-03	QV	2.300E-03	0.9264	2.482E-03	33,614	5.209E-06	-	5.209E-06
Nydoct-Innethyl-H-indene 132 ND ND ND ND ND 0.9264 ND 33.614 ND 1 Andoct-Innethyl-H-indene 132 ND ND ND ND ND 0.9264 ND 33.614 ND 1 Andoct-Innethyl-H-indene 128 182 ND ND ND ND 0.9264 1.016-02 33.614 ND 1 Andoct-Innethyl-H-indene 142 ND ND ND ND 0.9264 1.016-02 33.614 ND 1 Andoct-Innethyl-H-indene 52 ND ND ND 0.9264 1.016-02 33.614 ND 1 Andoct-Innethyl-H-indene 61 1.934 4.934E-03 ND 0.9264 1.006-02 33.614 ND 1 Andoct-Innethicle 61 1.934 4.934E-03 ND 1.936-03 3.614 ND 1.116E-03 3.614 ND 1.116E-03 3.614 ND 1.116E-03	ndane	118	QN	ND	QN	ON	0.9264	Q	33,614	Q	-	Q
Nydoc4-methyl-1H-indene 132 ND ND ND ND O9264 ND 33.614 ND 1 Jaker Amethyl-1H-indene 142 ND ND ND ND ND ND 1.0145-02 33.614 ND 1 Ayhaphthalene 142 ND ND ND ND ND ND 1.0145-02 33.614 ND 1 Ayhaphthalene 142 ND ND ND ND 0.9264 ND 33.614 ND 1 Ayhaphthalene 61 1.934 4.534E-03 ND ND 0.9264 ND 33.614 ND 1 Agen 1.101E-0 3.361 ND 1.137E-02 0.9264 1.226E-02 33.614 1.11E-05 1 Altificie 4.1 6.669 1.137E-02 0.9264 1.226E-02 33.614 1.11E-05 1 Altificie 5.3 0.8264 1.137E-02 0.9264 1.226E-02 33.614	3Dihydro-1-methyl-1H-indene	132	QN	ON	ON	ON	0.9264	ON	33,614	Q	-	QN
vipulation 128 1,823 9,705E-03 3,06F-04 9,398E-03 1,014E-02 33,614 2,129E-05 1 vipulaphthalene 142 ND ND ND ND ND ND ND ND 33,614 ND 1 gen 142 ND ND ND ND ND ND 33,614 ND 1 gen 142 ND ND ND ND ND 0,9264 ND 33,614 ND 1 gen 61 1,37E-02 ND ND 1,37E-02 0,9264 1,228E-03 33,614 1,18E-05 1 nitrite 61 4,227 9,319E-03 ND 1,137E-02 0,9264 1,228E-03 33,614 1,18E-05 1 nitrite 53 4,227 9,319E-03 ND 1,137E-03 33,614 1,18E-05 1 nitrite 53 0,226 1,228E-03 33,614 1,18E-05 1	2,3-Dihydro-4-methyl-1H-indene	132	QN	QN	QN	QN	0.9264	ON	33,614	QN	1	QN
yinaphthalene 142 ND ND ND ND 09264 ND 33614 ND 1 Yinaphthalene 142 ND 1,137E02 ND 1,118E-05 1 Application 52 ND ND ND 4,934E03 0,9264 5,236E-03 33,614 ND 1,118E-05 1 Initial 41 6,669 1,137E-02 ND 1,137E-02 0,9264 1,006E-03 33,614 1,118E-05 1 Initial 53 4,224E-03 ND 1,137E-02 0,9264 1,006E-03 33,614 1,118E-05 1 Initial 53 4,224E-03 ND 5,091E-03 0,9264 1,006E-03 33,614 1,118E-05 1 Initial 61 2,096 5,091E-03 ND ND 2,09264 5,296E-03 33,614 1,118E-05 1 Initial 69	Vaphthalene	128	1.823	9.705E-03	3.067E-04	9.398E-03	0.9264	1.014E-02	33,614	2.129E-05	1	2.129E-05
Ayright/malerine 142 ND 13564 ND 1176-05 ND ND ND ND ND ND ND ND 1137E-02 ND 1137E-02 ND 1137E-02 0.9264 1.228E-02 33,614 2.577E-05 1 Initrie 41 6.669 1.137E-02 ND 1.137E-02 0.9264 1.228E-02 33,614 2.577E-05 1 Initrie 41 6.669 1.137E-02 ND 1.137E-02 0.9264 1.228E-02 33,614 1.116E-05 1 Initrie 53 4.227 9.319E-03 ND 2.9264 1.206E-02 33,614 1.151E-05 1 Initrie 69 ND ND 2.143E-03 ND 0.9264 2.53E-02 1 Initrie 69 ND 1.596 6.814E-03 ND 0.9264 2.55E-02 1 Initrie	2-Methylnaphthalene	142	Q.	Q	Q	Q	0.9264	QN	33,614	Q	-	Q
gent 52 ND ND 9.9264 ND 35.514 ND 1.137E-02 gent 52 ND 4.934E-03 ND 4.934E-03 0.9264 5.3614 1.118E-05 1 infile 6.669 1.57E-02 ND 1.137E-02 0.9264 1.228E-02 33.614 2.57E-05 1 nitrile 53 4.227 9.319E-03 ND 1.137E-02 0.9264 1.208E-02 33.614 1.153E-05 1 nitrile 63 4.227 9.319E-03 ND 5.091E-03 0.9264 1.006E-02 33.614 1.153E-05 1 nitrile 69 ND ND 2.13E-03 0.9264 2.657E-03 33.614 1.53E-06 1 nitrile 69 ND ND 2.798E-03 ND 2.798E-03 0.9264 2.557E-03 33.614 1.53E-06 1 nitrile 69 ND 2.798E-03 0.9264 2.557E-03 33.614 1.54E-05	I-Methylnaphthalene	142	Q	Q	Q .	Q	0.9264	Q	33,614	Q	-	Q
infilite 4.334-0.5 ND 4.336-0.5 3.504-	Jyanogen	52	NO.	NO.	2 2	ND ND	0.9264	ON CO	33,614	ON IS		QV.
Particle Acetonitile	5	6.660	4.934E-03	5 5	4.934E-03	0.9264	3.320E-03	33,014	1.118E-05	- -	1.118E-05	
lethane 61 2.006 5.091E-03 ND 5.091E-03 0.9264 5.0926-02 3.3614 1.153E-05 1 PenIntile 55 0.937 2.143E-03 ND 2.143E-03 0.9264 5.313E-03 33,614 4.855E-06 1 Portifie 83 0.686 2.369E-03 ND 2.143E-03 0.9264 2.577E-03 33,614 6.38E-06 1 Infilie 103 1.590 6.814E-03 ND 2.736E-03 0.9264 7.356E-03 33,614 6.338E-06 1 Infilie 103 1.590 6.814E-03 ND 6.814E-03 0.9264 7.356E-03 33,614 1.544E-05 1 Infilie 103 1.590 6.814E-03 ND 6.814E-03 0.9264 7.356E-03 33,614 1.544E-05 1 Infilie 103 1.54 8.901E-04 ND 0.9264 7.356E-03 33,614 2.90E-05 1 Infilie 56 5.506 1.28	Acrionitrile	23	4 227	9.319F-03	2 2	9 3195-03	0.9264	1.220E-02	33,614	2.3776-05	-	2.577E-U5
nentirile 55 0.937 2.14E-03 ND 2.14E-03 0.9264 2.31E-03 33.614 4.85E-06 1 Aybropanentirile 69 ND ND 2.14E-03 0.9264 2.31E-03 33.614 ND 1 Penfitile 83 0.686 2.369E-03 ND 2.78E-03 0.9264 2.557E-03 33.614 ND 1 Initial 103 1.590 6.814E-03 ND 2.78E-03 3.36E-03 33.614 1.54E-05 1 Initial 103 0.154 ND 1.286E-03 0.9264 7.35EE-03 33.614 1.54E-05 1 Initial 103 0.154 ND 1.286E-03 0.9264 7.35E-03 33.614 1.54E-05 1 Initial 56 5.506 1.283E-02 ND 1.283E-02 0.9264 1.38E-02 33.614 1.293E-04 1 Initial 56 27.601 6.430E-02 7.235E-03 5.707E-02 0.9264	Vitromethane	9	2.006	5.091E-03	S	5.091E-03	0.9264	5.496E-03	33,614	1 1535-05	-	1 1535-05
vypropanentrile 69 ND ND ND ND 0.9264 ND 33.614 ND 1 Pentrile 83 0.686 2.369E-03 ND 2.369E-03 0.9264 2.557E-03 33,614 ND 1 Initiale 97 0.683 2.788E-03 ND 2.796E-03 0.9264 2.557E-03 33,614 5.366E-06 1 Initiale 103 0.154 ND 0.9264 0.9264 7.356E-03 33,614 1.544E-05 1 Initiale 139 0.154 8.901E-04 ND 0.9264 0.9264 2.608E-03 1 Initiale 56 5.506 1.283E-02 ND 1.283E-02 0.9264 1.386E-02 1 Initiale 56 27.601 6.430E-02 7.235E-03 5.707E-02 0.9264 1.366E-02 1 Initiale ND ND ND 0.9264 1.366E-02 33.614 1.293E-03 1 Initial <t< td=""><td>Propanentrile</td><td>55</td><td>0.937</td><td>2.143E-03</td><td>QN</td><td>2.143F-03</td><td>0.9264</td><td>2.433E-03</td><td>33,614</td><td>4 R55E-06</td><td> -</td><td>4 855F-06</td></t<>	Propanentrile	55	0.937	2.143E-03	QN	2.143F-03	0.9264	2.433E-03	33,614	4 R55E-06	 -	4 855F-06
lenitrile 83 0.686 2.369E-03 ND 2.369E-03 0.9264 2.557E-03 33,614 5.366E-06 1 entirile 97 0.693 2.788E-03 ND 2.788E-03 0.9264 3.020E-03 33,614 6.38E-06 1 nitrile 103 1.590 6.814E-03 ND 6.9264 7.356E-03 33,614 1.544E-05 1 phenol 139 0.154 8.901E-04 ND 8.901E-04 0.9264 7.356E-03 33,614 2.066E-05 1 in 56 5.504 1.283E-02 0.9264 1.336E-02 33,614 2.906E-05 1 in 56 27.601 6.430E-02 7.235E-03 5.707E-02 0.9264 6.160E-02 33,614 1.293E-04 1 oxy2-2-propanone 74 ND ND 2.076E-03 0.9264 6.160E-02 33,614 1.293E-04 1 oxy2-2-propanone 74 ND ND 2.076E-03 0.9264 <t< td=""><td>-Methylpropanenitrile</td><td>69</td><td>QN</td><td>Q</td><td>QN</td><td>ON.</td><td>0.9264</td><td>QN</td><td>33,614</td><td>2</td><td>-</td><td>QN</td></t<>	-Methylpropanenitrile	69	QN	Q	QN	ON.	0.9264	QN	33,614	2	-	QN
enifule 97 0.693 2.738E-03 ND 2.738E-03 0.9264 3.020E-03 33,614 6.338E-06 1 nifule 103 1.590 6.814E-03 ND 6.814E-03 0.9264 7.35E-03 33,614 1.544E-05 1 phenol 139 0.154 18.01E-04 ND 8.901E-04 0.9264 7.35E-03 33,614 2.90E-05 1 in 56 5.504 6.430E-02 7.235E-03 6.9264 1.355E-02 33,614 2.90E-05 1 in 56 27.601 6.430E-02 7.235E-03 6.9264 6.160E-02 33,614 1.293E-04 1 in 56 27.601 6.430E-02 7.235E-03 6.9264 6.160E-02 33,614 1.293E-04 1 oxy2-bropanone 74 ND ND 2.07E-03 0.9264 2.238E-03 33,614 ND 1 oxy2-bropanone 68 0.733 2.07E-03 0.9264 2.238E-03 33,61	Pentanenitrile	83	0.686	2.369E-03	QV	2.369E-03	0.9264	2.557E-03	33,614	5.366E-06	-	5.366E-06
1590 6.814E-03 ND 6.814E-03 0.9264 7.356E-03 33,614 1.544E-05 -lexanenitrile	- 6	0.693	2.798E-03	ND	2.798E-03	0.9264	3.020E-03	33,614	6.338E-06	1	6.338E-06	
phenol 139 0.154 8.901E-04 ND 8.901E-04 0.9264 9.608E-04 33,614 2.016E-06 1 in 56 5.506 1.283E-02 ND 1.283E-02 0.9264 1.385E-02 33,614 2.906E-05 1 re 56 27.601 6.430E-02 7.233E-03 5.707E-02 0.9264 6.160E-02 33,614 1.293E-04 1 row-2-propanone 74 ND ND ND 2.073E-03 0.0264 2.238E-03 33,614 ND 1 row-2-propanone 68 0.733 2.073E-03 ND 2.073E-03 0.0264 2.238E-03 33,614 ND 1	3enzonitrile	103	1.590	6.814E-03	Q	6.814E-03	0.9264	7.356E-03	33,614	1.544E-05	1	1.544E-05
in 56 5.506 1.283E-02 ND 1.283E-02 0.9264 1.385E-02 33,614 2.906E-05 1 ne 56 27.601 6.430E-02 7.235E-03 5.707E-02 0.9264 6.160E-02 33,614 1.293E-04 1 row-2-propanone 74 ND ND ND 0.9264 ND 33,614 ND 1 row-2-propanone 68 0.733 2.073E-03 ND 2.073E-03 0.0264 2.238E-03 33,614 4.697E-06 1	2-Nitrophenol	139	0.154	8.901E-04	Q	8.901E-04	0.9264	9.608E-04	33,614	2.016E-06	1	2.016E-06
ND ND ND 2.735E-03 5.707E-02 0.9264 6.160E-02 33,614 1.293E-04 1 Town-2-propanone 74 ND ND ND 0.9264 ND 33,614 ND 1 Mn ND 2.073E-03 0.0264 2.238E-03 33,614 4.697E-06 1 Mn ND ND 2.073E-03 0.0264 2.238E-03 33,614 4.697E-06 1	Acrolein	56	5.506	1.283E-02	ND	1.283E-02	0.9264	1.385E-02	33,614	2.906E-05	1	2.906E-05
Oxyz-chropanore 68 0.733 2.073E-03 ND 2.073E-03 0.9264 ND 33,614 4.697E-06 1	Acetone	56	27.601	6.430E-02	7.235E-03	5.707E-02	0.9264	6.160E-02	33,614	1.293E-04	-	1.293E-04
and CO NI NI NID 2,U/SE-U3 0,19264 2,238E-U3 33,614 4,69/E-U6 1	1-Hydroxy-z-propanone	4/3	ON C	ON COLOR	Q S	ON CO	0.9264	ON	33,614	QN I	-	QN
	Ulail	8 8	0.733	2.0/35-03	2 2	2.0/35-03	0.9264	2.238E-U3	33,614	4.69/E-06		4.697E-06

TABLE A-6. AEC - VOC RUN NO. 1 DATA FOR 155 mm ILLUMINATION ROUND TEST (1 APRIL 1998)

	Molecular	Average Concentration -	Average Concentration -	Background - Concentration,	Background Corrected Concentration -	Dilution	Corrected Concentration -	Initial Plume	Sample Total Material - Run	Number of	Corrected Emission Factor - Run
Compound (a)	Weight	Run 1, ppbv	Run 1, mg/m²	, m/gm	Run 1, mg/m³	Factor (b), %	Run 1, mg/m³	Volume, ft	1, tb	Items	1, lb/item
Methyloropanal	74	0.717	2.207E-03	QN	2.207E-03	0.9264	2.382E-03	33,614	4.999E-06	-	4.999E-06
Propanol	9	Q	QN	QN	₽	0.9264	QN	33,614	Q	-	QN
ethacrolein	20	0.769	2.238E-03	QN	2.238E-03	0.9264	2.416E-03	33,614	5.070E-06	1	5.070E-06
ethyl-vinyl Ketone	70	0.490	1.426E-03	QN	1.426E-03	0.9264	1.539E-03	33,614	3.230E-06	1	3.230E-06
TBE	88	0.177	6.468E-04	5.544E-04	9.242E-05	0.9264	9.976E-05	33,614	2.093E-07	1	2.093E-07
3-Butanedione	98	QN	Q	QN	QV	0.9264	QV	33,614	QN	1	QN
utanal	72	0.511	1.530E-03	QV	1.530E-03	0.9264	1.651E-03	33,614	3.465E-06	1	3.465E-06
Butanone	72	2.587	7.749E-03	7.941E-04	6.955E-03	0.9264	7.508E-03	33,614	1.576E-05	1	1.576E-05
Methyl-1,3-dioxolane	88	S	Q	Q	9	0.9264	QN	33,614	ON	1	ND
Methylfuran	82	QN	Q	QN	9	0.9264	ΝĎ	33,614	QN	1	ND
etrahydrofuran	72	0.081	2.440E-04	S	2.440E-04	0.9264	2.634E-04	33,614	5.528E-07	1	5.528E-07
ans-2-Butenal	70	0.506	1.474E-03	QN	1.474E-03	0.9264	1.591E-03	33,614	3.340E-06	1	3.340E-06
cetic Acid	09	2.099	5.240E-03	1.105E-03	4.135E-03	0.9264	4.463E-03	33,614	90-399E'6	1	9.366E-06
Butanol	74	Q	Q	Q	Q	0.9264	QN	33,614	QN	1	QN
Pentanone	98	0.441	1.577E-03	Q	1.577E-03	0.9264	1.703E-03	33,614	3.573E-06	1	3.573E-06
entanal	98	1.379	4.933E-03	1.610E-03	3.322E-03	0.9264	3.586E-03	33,614	7.526E-06	1	7.526E-06
4-Dioxane	88	QN _	QN	QN	QN	0.9264	ND	33,614	QN	1	ND
ethyi Methacrylate	100	QN	QN	QN	ON	0.9264	ND	33,614	QN	1	S
yclopentanone	84	21.330	7.454E-02	QN	7.454E-02	0.9264	8.046E-02	33,614	1.688E-04	1	1.688E-04
exanal	100	0.386	1.607E-03	1.206E-03	4.008E-04	0.9264	4.327E-04	33,614	9.080E-07	1	9.080E-07
Furaldehyde	96	3.375	1.348E-02	QN	1.348E-02	0.9264	1.455E-02	33,614	3.053E-05	1	3.053E-05
ydohexanone	86	QN	QN	QN	QN	0.9264	ND	33,614	QN	1	ND
eptanal	114	0:330	1.567E-03	9.731E-04	5.939E-04	0.9264	6.411E-04	33,614	1.345E-06	1	1.345E-06
Butoxyethanol	118	QN	QN	GN	QN	0.9264	ND	33,614	QN	1	ND
enzaldehyde	106	1.993	8.789E-03	6.469E-04	8.143E-03	0.9264	8.789E-03	33,614	1.844E-05	1	1.844E-05
Methyl-5-hepten-2-one	126	QN	QN	4.461E-04	ON	0.9264	Q	33,614	Ω	-	S
ctanal	128	0.374	1.990E-03	1.464E-03	5.266E-04	0.9264	5.684E-04	33,614	1.193E-06	1	1.193E-06
enzofuran	118	QN	QN	QN	ON	0.9264	QN	33,614	QN	-	ON
Ethyl-1-hexanol	120	ON	QN	QN	QN	0.9264	QN	33,614	QN	1	ND
cetophonone	120	0.360	1.797E-03	_ ON	1.797E-03	0.9264	1.940E-03	33,614	4.071E-06	1	4.071E-06
onanal	142	0.462	2.728E-03	2.037E-03	6.902E-04	0.9264	7.450E-04	33,614	1.563E-06	1	1.563E-06
ecanal	156	0.488	3.168E-03	2.172E-03	9.964E-04	0.9264	1.076E-03	33,614	2.257E-06	-	2.257E-06
arbonyi Sulfide	60	0.680	1.697E-03	1.588E-04	1.538E-03	0.9264	1.660E-03	33,614	3.484E-06	1	3.484E-06
arbon Disulfide	76	9.368	2.962E-02	1.418E-03	2.820E-02	0.9264	3.044E-02	33,614	6.388E-05	1	6.388E-05
hiophene	84	0.378	1.321E-03	QN	1.321E-03	0.9264	1.425E-03	33,614	2.991E-06	1	2.991E-06
imethyldisulfide	94	QN	QN	QN	QN	0.9264	ND	33,614	QN	1	ND

a Compounds in bold represent duplicate values. b Estimated from tracer data as presented in Volume IV.

TABLE A-7. AEC - SVOC DATA EVALUATION FOR 155 mm ILLUMINATION ROUND TEST (1 APRIL 1998)

	Average	Average	Average Background	Average Maximum Detection Limit -	Average Minimum Detection Limit	Background	Minimum Detection Limit	Background	Minimum Detection Limit
Compound	Run 1, mg/m³	Run 1, mg/m³	mg/m³	mg/m³	mg/m³	Criteria	Criteria	Notes	Notes
Particulate/Vapor-phase SVOCs									
N-Nitrosodimethylamine	QN	QN	ON	1.207E-03	1.207E-03	ND	QN	L.	ш
Pyridine	QN	QN	ND	3.538E-03	3.538E-03	ND	Q	ш	L.
2-Picoline	ON	ND	ND	3.677E-03	3.677E-03	ND	ND	F	ш
Methyl methanesulfonate	QN	QN	ND	1.391E-03	1.391E-03	ND	QN	F	L.
N-Nitrosomethylethylamine	QN	QN	ND	2.761E-03	2.761E-03	QN	QN	ш	Я
N-Nitrosodiethylamine	QN	ON	ND	2.949E-03	2.949E-03	ND	QN	F	ш
Ethyl methanesulfonate	QN	QN	ND	1.356E-03	1.356E-03	ND	QN	F	L
Phenol	ON	ON	ND	8.673E-04	8.673E-04	QN	QN	ı	ட
Aniline	QN	QN	QN	1.384E-03	1.384E-03	QN	QN	LL.	ш
bis(2-Chloroethyl)ether	QN	QN	ON	1.082E-03	1.082E-03	ND	QN	¥.	L.
Pentachloroethane	Q	Q	QN	2.501E-03	2.501E-03	QN	Q	ட	ц.
2-Chlorophenol	ND	ND	ND	5.516E-04	5.516E-04	ND	QN	т.	ш
1,3-Dichlorobenzene	ON	ON	ND	1.065E-03	1.065E-03	ND	QN	F	u.
1,4-Dichlorobenzene	QN	QN	ND	2.137E-03	2.137E-03	ND	QN	F	H.
Benzyl alcohol	QN	QN	ND	2.418E-03	2.418E-03	ND	QN	F	ш
2-Methylphenol	QN	QN	ON	1.946E-03	1.946E-03	ON	QN	ı	u_
1,2-Dichlorobenzene	QN	QN	ND	1.547E-03	1.547E-03	ND	QN	Ь	u.
bis(2-Chloroisopropyl)ether	ON	ND	ND	1.304E-03	1.304E-03	ND	QN	F	Ŧ
o-Toluidine	QN	QN	ND	1.374E-03	1.374E-03	ND	QN	.	L
4-Methylphenol/3-Methylphenol	QN	ON	ON	1.644E-03	1.644E-03	Q	QN	LL.	L
N-Nitroso-di-n-propylamine	Q	Q	QN	9.748E-04	9.748E-04	ND	QN	F	ட
Acetophenone	2.883E-03	2.883E-03	2.071E-04	1.023E-03	1.023E-03	13.92	2.82	A	S
N-Nitrosomorpholine	QQ	QN	ND	3.119E-03	3.119E-03	S	QN	ш	ш
N-Nitrosopyrrolidine	2	QN	QN	4.128E-03	4.128E-03	ND	QN	ш	ட
Hexachloroethane	Q	QN	ND	1.714E-03	1.714E-03	QN	QN	щ	ц.
Nitrobenzene	Q	QN	QN	3.091E-03	3.091E-03	Q	Q	Ь	щ
N-Nitrosopiperidine	2	QN	Q	2.529E-03	2.529E-03	QN	Q	L.	u_ j
Isophorone	2	QN	QN	7.424E-04	7.424E-04	QN	QN	щ	L.
2,4-Dimethylphenol	9	Q	Q.	1.169E-03	1.169E-03	Q	QN	ш <mark>!</mark>	<u>u</u>
Z-Nitrophenoi	2	ON.	ON.	1.859E-03	1.859E-03	ON	Q	_	-
bis(2-Chloroethoxy)methane	Q :	QN .	Q.	1.356E-03	1.356E-03	QN.	Q.	ш.	4 1
Benzoic acid	2	ON	QN	1.270E-01	1.270E-01	ND	QN	<u>.</u>	ı
2,4-Dichlorophenol	Q	QN	QN	1.700E-03	1.700E-03	QN	Q	ட	L
1,2,4-Trichlorobenzene	Q	ND	ND	1.225E-03	1.225E-03	ND	QN	F	ш
Naphthalene	5.579E-03	5.579E-03	ND	1.551E-03	1.551E-03	10.00	3.60	Α	ပ
p-Chloroaniline	S	ON	ND	1.117E-03	1.117E-03	ND	ON	F	H.
2,6-Dichlorophenol	Q	ND	ND	1.193E-03	1.193E-03	S	QN	F	F
Hexachloropropene	QN	ND	ND	1.960E-03	1.960E-03	ND	QN	F	ıL
Hexachlorobutadiene	9	ND	ND	1.769E-03	1.769E-03	ND	QN	F	Ŀ
Dimethylphenethylamine	9	QN	ND	7.077E-02	7.077E-02	ND	ON	L	L
N-Nitroso-di-n-butylamine	Q	QV	ND	1.297E-03	1.297E-03	Q	QN	ш	щ

TABLE A-7. AEC - SVOC DATA EVALUATION FOR 155 mm ILLUMINATION ROUND TEST (1 APRIL 1998)

Compound	Average Concentration - Run 1, mg/m³	Average Concentration - Run 1, mg/m³	Average Background - Concentration, mg/m ¹	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³	Background Evaluation Criteria	Minimum Detection Limit Evaluation Criteria	Background Evaluation Notes	Minimum Detection Limit Evaluation Notes
4-Chloro-3-methylphenol	QN	QN	2	1.967E-03	1.967E-03	QN	QN	Ł	ш
Safrole	QN	QN	QN	2.466E-03	2.466E-03	ND	QN	4	F
2-Methylnaphthalene	QN	QN	ON	1.245E-03	1.245E-03	ND	QN	F	Ŧ
1,2,4,5-Tetrachlorobenzene	QN	QN	QN	1.894E-03	1.894E-03	ND	QN	Œ.	u.
Hexachlorocyclopentadiene	QN	QN	QN	3.851E-02	3.851E-02	QN	QN	£	Ь
2,4,6-Trichlorophenol	QN	QN	QV	2.189E-03	2.189E-03	ND	ND	4	4
2,4,5-Trichlorophenol	QN	QΝ	QN	1.859E-03	1.859E-03	ND	QN	4	Ь
Isosafrole	QN	QN	QN	3.747E-03	3.747E-03	ND	QN	4	Ь
2-Chloronaphthalene	QN	QN	QN	1.957E-03	1.957E-03	QN	QN	4	Ł
2-Nitroaniline	QN	QN	ON	1.242E-03	1.242E-03	ND	ND	ш.	
1,4-Naphthoquinone	QN	QN	ON	3.469E-03	3.469E-03	ND	QN	ъ	Ŧ.
Dimethylphthalate	QN	QN	QN	1.009E-03	1.009E-03	QN	QN	4	ч
1,3-Dinitrobenzene	QV	QV	Q	2.904E-03	2.904E-03	QN	QN	<u> </u>	4
2,6-Dinitrotoluene	QN	QN	QN	2.442E-03	2.442E-03	QN	QN	4	ш
Acenaphthylene	Q	QN	2	1.134E-03	1.134E-03	Q	9	ш.	ш.
3-Nitroaniline	QN	QV	₽	3.056E-03	3.056E-03	Q	QN	L.	ш.
4-Nitrophenol	QV	Q	Q	1.065E-01	1.065E-01	QV	QN	ш.	ш.
2,4-Dinitrophenol	Q	Q	Q	1.093E-01	1.093E-01	QN	QN	L.	4
Acenaphthene	QV	QV	9	1.249E-03	1.249E-03	Q	QN	ц.	ц.
2,4-Dinitrotoluene	QN	Q.	Q	1.544E-03	1.544E-03	9	QN	u.	u_
Dibenzofuran	ND	ND	ND	8.464E-04	8.464E-04	DN	ND	u.	ш.
Pentachlorobenzene	ON	ND	ON	2.338E-03	2.338E-03	ND.	ND	ц.	ட
1-Naphthylamine	ND	ND	QN	6.105E-03	6.105E-03	ND	ND	ш	T.
2-Naphthylamine	Q	ND	Q	5.412E-03	5.412E-03	ND	QN	ш	щ
2,3,4,6-Tetrachlorophenol	Q	ND	Q	2.477E-03	2.477E-03	Q	QN	ш.	ட
Diethylphthalate	1.776E-03	1.776E-03	1.381E-04	9.019E-04	9.019E-04	12.86	1.97	¥	D
4-Chlorophenylphenyl ether	ON	ND	QN	9.817E-04	9.817E-04	ND	ND	ш.	ш.
Fluorene	Q	ND	Q	1.179E-03	1.179E-03	Q.	Q	ц.	u.
5-Nitro-o-toluidine	Q	QN	Q	1.259E-03	1.259E-03	Q	Q	ц.	ш.
4-Nitroaniline	QN	ND	Q	2.688E-03	2.688E-03	QN	Q	ш	ш.
4,6-Dinitro-2-methylphenol	Q	QN	Q	9.436E-02	9.436E-02	Q	QN	4	щ
Diphenylamine/N-NitrosoDPA	QN	ΩN	Q	1.277E-03	1.277E-03	Q	QN	ш	ш.
sym-Trinitrobenzene	QN	ΩN	Q	4.336E-03	4.336E-03	ND	QN	ц.	և
Diallate	QN	ND	Q	1.648E-03	1.648E-03	ND	QN	<u>F</u>	щ
Phenacetin	QN	ND	Q	7.771E-04	7.771E-04	ND	Q	ш.	ш.
4-Bromophenylphenyl ether	QN	ND	Q	2.390E-03	2.390E-03	ND	Q	ш.	ų.
Hexachlorobenzene	QN	ND	QN	1.287E-03	1.287E-03	ND	ND	u.	Ŀ
4-Aminobiphenyl	ON	ND	QN	7.181E-03	7.181E-03	ND	N	Ŧ	L
Pronamide	ND	ND	QN	8.915E-04	8.915E-04	ND	QN	1	ц
Pentachlorophenol	Q	ND	QN	9.991E-02	9.991E-02	ND	ND	Ŧ.	Ł
Pentachloronitrobenzene	Q	ND	QN	4.648E-03	4.648E-03	ON	QN	ш	F
Phenanthrene	ON	ND	ON	2.116E-03	2.116E-03	ND	QN	¥	Ь
Anthracene	2	Q	QN	1.270E-03	1.270E-03	Q	9	ш	4.

TABLE A-7. AEC - SVOC DATA EVALUATION FOR 155 mm ILLUMINATION ROUND TEST (1 APRIL 1998)

Run 4.0	═╂┼┼┼┼		Background -	Average Maximum Detection Limit - Concentration.	Average minimum Detection Limit - Concentration.	Background	Minimum Detection Limit Evaluation	Background	Detection Limit
	93	Run 1, mg/m³	mg/m³	mg/m³	mg/m³	Criteria	Criteria	Notes	Notes
	80	QN	QN	8.499E-04	8.499E-04	QN	QN	4	ш
		4.077E-03	7.691E-04	5.897E-04	5.897E-04	5.30	6.91	В	В
		2	9	7.805E-02	7.805E-02	QN	Q	ш	L.
		QN	QN	7.181E-02	7.181E-02	2	Q	ட	ш
		QN	QN	1.252E-03	1.252E-03	QN	QN	Ŧ.	F
		ON	QN	4.648E-02	4.648E-02	QN	QN	ш	Ŧ
		ON	ON	1.721E-03	1.721E-03	QN	QN	Н.	F
p-Dimethylaminoazobenzene		ON	QN	1.277E-03	1.277E-03	QN	QV	Ŧ	Ŧ
Chlorobenzilate		QN	ND	1.776E-03	1.776E-03	ŅD	QN	F	ш
Kepone		QN	QN	6.522E-02	6.522E-02	QN	Q	ш.	ட
Butylbenzylphthalate 3.028E-03	03	3.028E-03	ND	7.111E-04	7.111E-04	10.00	4.26	A	င
3,3'-Dimethylbenzidine		ON	ON	6.869E-03	6.869E-03	ND	QN	F	F
		QN	ON	1.082E-03	1.082E-03	ŇD	ND	F	F
bis(2-Ethylhexyl)phthalate		QN	QN	4.232E-03	4.232E-03	QN	QN	F	F
3,3'-Dichlorobenzidine		ON	QN	1.162E-03	1.162E-03	QN	QN	ш	ட
Benz(a)anthracene ND		DN	ON	1.568E-03	1.568E-03	DN	QN	ட	F
		ND	QN	1.693E-03	1.693E-03	QN	QN	ır	Ŧ
Di-n-octylphthalate ND		ND	ND	1.082E-03	1.082E-03	QN	QN	F	F
hracene		ND	ND	1.599E-03	1.599E-03	QN	ND	F	F
		ND	ND	9.644E-04	9.644E-04	QN	QN	F	u
Benzo(k)fluoranthene (a)		ND	DN	2.015E-03	2.015E-03	QN	QN	F	ш
Benz(a)pyrene ND		QN	QN	1.141E-03	1.141E-03	QN	QN	ш	ய
3-Methylcholanthrene		QN	QN	4.059E-03	4.059E-03	QN	QN	F	Щ
Indeno(1,2,3-cd)pyrene		QN	QN	7.597E-04	7.597E-04	QN	Q	ш	L.
Dibenz(a,h)anthracene		ON	QN	8.534E-04	8.534E-04	QN	QN	ட	ıL
Benzo(g,h,i)perylene		QN	ON	8.187E-04	8.187E-04	Q	Q	ш	ш

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

A = Identified as a contaminant (greater than or equal to 10 times background or minimum MQL)

B = Likely contaminant (less than 10 and greater than or equal to 5 times background or minimum MQL)

C = Probable contaminant (less than 5 and greater than or equal to 2 times background or minimum MQL)

D = Measured, but accuracy or presence questionable (less than 2 and greater than or equal to 1 times background or minimum MQL)

F = Not considered a contaminant (less than 1 times background or minimum MQL)

TABLE A-8. AEC - SVOC RUN NO. 1 DATA FOR 155 mm ILLUMINATION ROUND TEST (1 APRIL 1998)

phase SVOCs 74 mine 74 mine 79 79 93 onate 102 nate 124 124 93 her 147 e 148 222222	Concentration - Run 1, mg/m³	Concentration, mg/m³	Concentration - Run 1, mg/m³	Correction Factor (b), %	Conrected Concentration - Run 1, mg/m³	Initial Plume Volume, ft?	Material - Run 1, lb	Number of Items	Factor - Run 1, Ib/item	
74 79 88 110 110 1124 94 94 93 143 143 147 147 147 108 108 110 110 110 120 130 110 120 130 110 120 130 147 177 177 177 177 177 177 177	999999									
79 93 110 88 88 102 124 93 93 143 202 129 147 147 147 171 171 108 130 130 130 130 130 130 130 130 130 130	99999	Q	Q	QN	0.9299	QN	33,614	Q	-	QV
93 110 88 102 124 93 93 143 147 147 147 147 168 108 110 110 110 120 120 120 130 130 130 130 130 130 130 130 130 13	9999	g	QN	QV	0.9299	QV	33,614	Q	_	2
110 88 102 124 94 93 143 202 129 147 147 147 16 108 108 108 108 116 116 116 123 120 120 120 127 127 127 128 130 130 128 130 130 130 130 130 130 130 130	222	QN	QN	QV	0.9299	QN	33,614	Q	-	QV
88 102 124 94 94 93 143 129 129 168 107 108 107 108 110 110 120 120 120 120 120 120 120 120	Q Q	QV	Q	QV	0.9299	QN	33,614	Q	-	Ð
102 124 94 94 93 143 120 129 147 147 108 108 107 107 110 120 120 120 120 120 120 120 120 120	CN	QV	Ð	QV	0.9299	QN	33,614	Q	-	Q.
124 94 93 143 143 129 147 147 16 108 108 110 110 110 120 120 120 120 120 120 120		Q	Ñ	QV	0.9299	QV	33,614	QV	-	Q
94 93 143 202 202 129 147 147 147 171 108 130 120 120 116 116 116	QN	QV	QN	QN	0.9299	QN	33,614	Q	-	Q
93 202 202 129 129 147 147 108 108 107 108 130 130 116 116 116 123 123 123	QN	g	Ð	QN	0.9299	QV	33,614	QV	1	S
143 202 129 147 147 108 108 107 107 110 110 120 120 120 120 120 120	Q	Q	Q	QN	0.9299	QN	33,614	9	-	2
202 179 147 147 168 108 147 171 171 171 100 120 120 120 130 130 130 130 130 130 130 130 130 13	QN	S	S	QN	0.9299	QN	33,614	Q	-	Q
129 147 147 108 108 171 171 171 107 120 120 116 116 116	QN	2	Q	QV	0.9299	S	33,614	Q	-	2
147 147 108 108 147 171 107 108 130 120 120 116 116 116	QN	QN	Q	Q.	0.9299	QN	33,614	Q	-	QN
147 108 108 147 171 108 130 120 116 116 116 123 123 123	QN	QN	QN	Q	0.9299	S	33,614	Q	-	QN
108 1108 147 147 107 108 130 120 120 120 120 120 120 120 120	ND	QN	QN	QN	0.9299	2	33,614	Q	-	QN
108 147 171 107 108 130 120 120 120 120 120 237 237	QN	QN	QV	QN	0.9299	QN	33,614	Q	-	QN
147 171 107 108 130 120 116 116 116 116 116	QN	QN	9	QV	0.9299	QN	33,614	QV	-	QN
171 107 108 130 120 116 116 100 237	QN	QN	ON	QN	0.9299	QN	33,614	Q	-	QN
107 108 130 120 120 116 100 237	QN	ON	ON	QN	0.9299	S	33,614	Q	-	Q
108 130 120 116 100 123	ΩΩ	QN	QN	QN	0.9299	QN	33,614	QN	1	Q
130 120 116 100 237 123	Q	Q.	QN	QN	0.9299	QN	33,614	QV	-	<u>Q</u>
120 116 100 237 123	Q	Q	Q	QN	0.9299	QN	33,614	QN	1	QN
6	0.577	2.883E-03	2.071E-04	2.675E-03	0.9299	2.877E-03	33,614	6.038E-06	1	6.038E-06
	2	Q	QN	QN	0.9299	Q	33,614	QN	1	QN
	2	Q.	2	2	0.9299	Q	33,614	Q	-	Q.
	2	2	2	Q	0.9299	2	33,614	Q	-	Q
	2	Q :	Q	Q.	0.9299	Q	33,614	Q	-	Ω Q
pendine	2	2	Q	2	0.9299	2	33,614	Q	-	Q
	2	2	Q !	2	0.9299	2	33,614	QN	-	Q
2,4-Dimetriyiphetrioi	2	2	2	Q	0.9299	2	33,614	Q	-	9
his/2 Chlorothous/mothons	2 2	2 2	2	2	0.9299	Q.	33,614	2		9
	2 2	2 2	2	2	0.9299	Q S	33,614	Q.		2
2.4-Dichlorophanol	2 2	2 2	2 2	2 2	0.9299	2 2	33,614	2		2
zene	2	200	2 5	2 5	0.9299	2 2	33,014	2 2		2 2
128	1.048	5.579E-03	Q	5.579E-03	0.9299	5 999F-03	33.614	1 2595.05	-	1 250E.05
p-Chloroaniline 128	QN		2	2	0.9299	QN	33.614	CN	-	NO CIN
	Q	Q	2	2	0.9299	2	33,614	Q.	-	2 2
	Q	9	S	Q	0.9299	2	33.614	Q	-	CN
	QN	QN	Q	Q.	0.9299	Q	33,614	Q	-	2
	QN	QV	S	QN	0.9299	Q	33,614	Q	_	2
0	QN	QN	QN	Q	0.9299	Q	33,614	Q	_	Q
4-Chloro-3-methylphenol	Q	QN	QN	QN	0.9299	QV	33,614	Q	-	Q
	Q.	Q	ND	QN	0.9299	QN	33,614	9	-	QV
	2	Q	QN	QN	0.9299	QN	33,614	Q		Q
1,2,4,5-Tetrachlorobenzene	2	Q	QN	QV	0.9299	Q	33,614	QN	1	QN
Idiene	2	Q	Q	Q	0.9299	Q	33,614	QN	1	QN
7,4,0-1 nchlorophenol		Q	Q	Q	0.9299	Q	33,614	Q	1	QN

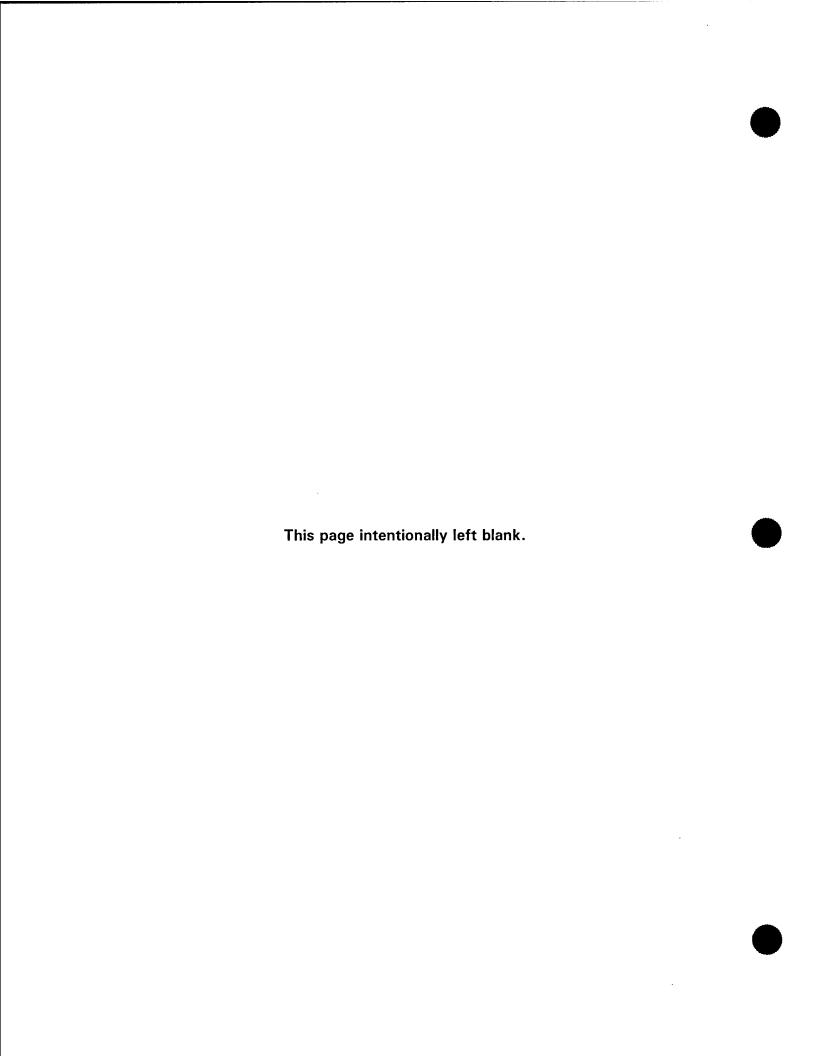
TABLE A-8. AEC - SVOC RUN NO. 1 DATA FOR 155 mm ILLUMINATION ROUND TEST (1 APRIL 1998)

. (Molecular	Average Concentration	Average Concentration	Background - Concentration,	Background Corrected Concentration -	Dilution Correction	Corrected Concentration	Initial Plume	Sample Total Material - Run	Number of	Corrected Emission Factor - Run
Compound 2.4.6. Trichlorophopol	102	NO NO		GN	GN.	6560	QN	33.614	QX	-	QN
sosafrole	162	Q	S	Q	9	0.9299	QN	33,614	Q	-	QV
2-Chloronaphthalene	163	Q	Q	QN	QN	0.9299	QN	33,614	QN	1	ON
-Nitroaniline	138	2	9	QN	Q	0.9299	QN	33,614	Q	-	ON
4-Naphthouinone	158	Q.	QN	QN	Q	0.9299	ON	33,614	QN	1	ON
Dimethylphthalate	194	QN	2	QN	Q	0.9299	Q	33,614	QV	1	QN
1.3-Dinitrobenzene	168	2	2	QN	QN	0.9299	QN	33,614	Q	1	QN
2-6-Dinitrotoluene	182	Q	Q	QN	Q	0.9299	QN	33,614	QN	1	QN
Acenaphthylene	152	2	QN	QN	QN	0.9299	QV	33,614	QN	1	QN
3-Nitroaniline	138	2	Q	QN	QN	0.9299	QN	33,614	QN	1	Q
4-Nitrophenol	139	QV	QV	QN	QN	0.9299	QN	33,614	QN	+	QN
2,4-Dinitrophenol	184	QN	Q	QN	QN	0.9299	QN	33,614	QN	ļ	Q
Acenaphthene	154	Q	Q	QN	QN	0.9299	QN	33,614	Q	1	Q
2,4-Dinitrotoluene	182	QN	Q	QN	QN	0.9299	ON	33,614	Q	-	Q
Dibenzofuran	168	QN	QN	QN	QN	0.9299	Q	33,614	Q	1	2
Pentachlorobenzene	250	QN	ON	QN	QN	0.9299	QN	33,614	9	-	Q
-Naphthylamine	143	QN	QN	QN	QN	0.9299	Q	33,614	Q	1	Q
2-Naphthylamine	143	ON	QN	QN	ON	0.9299	Q	33,614	Q	1	Q
2,3,4,6-Tetrachlorophenol	232	QN	QN	QN	Q	0.9299	Q	33,614		-	Q
Diethylphthalate	222	0.192	1.776E-03	1.381E-04	1.638E-03	0.9299	1.762E-03	33,614	3.697E-06		3.697E-06
4-Chlorophenylphenyl ether	205	QV	Q	Q	2	0.9299	2	33,614	2	-	2
Fluorene	166	Q	Q	Q.	Q.	0.9299	ON C	33,614	2	_ ,	2
5-Nitro-o-toluidine	152	Q.	QN S	QV.	2	0.9299	Q.	33,614	2 9	_ .	2 2
4-Nitroaniline	138	Q S	ON C	Q C	2 2	0.9299	2 2	33,614	2 2		2 2
4,6-Dinitro-2-methylphenol	198	2 2	2 2		2 2	0.9239	2 2	23,614	2 2	-	2 5
Upnenylamine/N-Initiosoury	213	2 2	2 2	2 2	2 2	0.9233	2 2	33.614	2	-	QN
Synt-InitioDelizerie Diallate	270	2 2	2 2	S	Q Q	0.9299	QN	33,614	2	-	Q
Phanacetin	179	QV	2	2	Q	0.9299	Q	33,614	2	1	QN
4-Bromonhanviphenvi ether	249	QV	2	9	Q	0.9299	Q	33,614	2	-	QV
Hexachlorobenzene	285	Ð	QV.	QN	QN	0.9299	QN	33,614	Q	1	QN
4-Aminobiphenyl	169	QN	QN	QN	QN	0.9299	ON	33,614	ON	1	QN
Pronamide	228	QN	QN	QN	ON	0.9299	QN	33,614	Q	1	Q
Pentachlorophenol	266	Q	Q	Q	Q	0.9299	2	33,614	2	-	2
Pentachloronitrobenzene	295	9	2	2	2	0.9299	2	33,614	2		2
Phenanthrene	178	ON S	2	2	ON S	0.9299	2 2	33,014	2 2	- -	2 2
Anthracene	8/1	2 2	2 2	2 2		0.9299	2 2	33,014	2 2	- -	2 2
Oi-o-huviohthalate	278	0.353	4.077E-03	7.691E-04	3.308E-03	0.9299	3.557E-03	33,614	7.465E-06	-	7.465E-06
4-Nitroquinoline-1-oxide	190	Q	11 ~	2	QN	0.9299	QV	33,614	QV	_	Q
Methapyrilene	261	QN	QN	QN	QN	0.9299	QN	33,614	ND	1	QN
Fluoranthene	202	Q	Q	Q	QN	0.9299	QN	33,614	ND	-	Q
Benzidine	184	QN	QN	QN	ON	0.9299	QN	33,614	Q	-	Q
Pyrene	202	QN	Q	Q	Q	0.9299	2	33,614	2	-	2
p-Dimethylaminoazobenzene	225	Q	Q	Q	Q	0.9299	2	33,614	2 2	-	2 2
Chlorobenzilate	325	Q	2	Q C	Q S	0.9299	2 2	33,514	2 5		2 2
Kepone	491	ON S	ON Legis	2 2	ON CO	0.9299	ND	33,514	NO 8935-06	-	S 833E-06
Butylbenzylphtnalate	312	0.233 ND	3.028E-03	2 2		0.9299	3.230E-03	33,614	0.0335-00 NO	- -	CN
S,S-Dillelityibenziolile	212	2 5	2 2	2 5	g S	0.3533	2	33.614	2 2	-	CX

TABLE A-8. AEC - SVOC RUN NO. 1 DATA FOR 155 mm ILLUMINATION ROUND TEST (1 APRIL 1998)

Corrected Emission Factor - Run 1, Ib/Item	QN	Q	2	2	9	Q	Q	2	Q	Q	Q	Q	Q
Number of Items	-	F	-	-	1	1	1	1	1	-	1	1	1
Sample Total Material - Run 1, lb	QN	Q	2	9	Q	9	Q	Q	QN	Ð	Q	2	QN
Initial Plume Volume, ft²	33,614	33,614	33,614	33,614	33,614	33,614	33,614	33,614	33,614	33,614	33,614	33,614	33,614
Corrected Concentration Run 1, mg/m³	QN	9	Q	9	Q	Q	9	Q	QN	Q	Q	QN	ND
Dilutton Correction Factor (b) %	0.9299	0.9299	0.9299	0.9299	0.9299	0.9299	0.9299	0.9299	0.9299	0.9299	0.9299	0.9299	0.9299
Background Corrected Concentration - Run 1, mg/m³	QN	Q	Q	Q	Q	S	QV	Q	QN	QV	QN	QV	QN
Background - Concentration, mg/m³	QN	Q	Ð	Q	Q	Q	S	2	QN	Q	S	QV	QN
Average Concentration - Run 1, mg/m³	QN	Q	Q	Q	Q	QN	QN	GN	QΝ	QN	Q	QN	QN
Average Concentration - Run 1, ppbv	QN	QN	QV	QN	QN	g	QN	QN	ON	QN	QN	QN	ON
Molecular Weight	391	253	228	228	391	256	252	252	252	268	276	278	276
Pinodwo	s(2-Ethylhexyl)phthalate	3'-Dichlorobenzidine	enz(a)anthracene	nysene	-n-octylphthalate	12-Dimethylbenz(a)anthracene	enzo(b)fluoranthene (a)	enzo(k)fluoranthene (a)	inz(a)pyrene	Methylcholanthrene	Jeno(1,2,3-cd)pyrene	benz(a,h)anthracene	nzo(g,h,i)penylene

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers. b Estimated from tracer data as presented in Volume IV.



APPENDIX II-B. DILUTION CORRECTION FACTOR DATA

Table B-1. Fraction of Initial Plume Sampled for TSP and Metals Data

		Percent	Plume	Sampled	82.81%	78.87%	84.69%	93.73%	93.77%	93.96%	97.08%	88.27%	87.62%	86.61%	93.89%
	Jata	Avg.	Tracer	Conc. (ppt)	293	376	396	404	423	424	455	412	414	418	451
	Sampling Train Data	Stop	Time	(min)	25	30	30	- 10	10	10	5	30	25	20	8
	Sam	Start	Time	(min)	0	0	0	0	0	0	0	1	2	5	5
		Sampling	Duration	(min)	25	30	30	10	10	10	5	29	20	15	3
	Equation ^a			"a"	-0.0156	-0.0165	-0.0114	-0.0131	-0.0130	-0.0126	-0.0119	-0.0082	6800.0-	-0.0116	-0.0097
ata	Equ			"C	353	476	467	431	451	452	469	467	472	482	480
OGI Data	Initial Conditions	Plume	Volume	(m³)	1026.43	960.17	976.90	1057.41	1009.29	1008.68	976.11	979.83	968.70	949.19	951.86
	Initial C	Tracer	Conc.	(ppt)	353	476	467	431	431	452	469	467	472	482	480
			NEW	(q))	0.22	0.19	0.19	0.32	0.32	0.28	0.42	1.67	0.32	0.28	6.12
				Date	28-Mar-98	28-Mar-98	28-Mar-98	30-Mar-98	30-Mar-98	30-Mar-98	30-Mar-98	31-Mar-98	31-Mar-98	01-Apr-98	01-Apr-98
			Run	No.	BT-2	FA-1	FA-2	HG-1	HG-2	GB-1	GB-2	GS-1	GP-1	WP-2	IR-1

NEW = Net Explosive Weight
OGI = Oregon Graduate Institute
ppt = parts per trillion
TSP = Total Suspended Particulates

Table B-2. Fraction of Initial Plume Sampled for PM₁₀ Data

		Percent	Plume	Sampled	92.59%	92.19%	89.42%	%08.96	96.82%	97.52%	98.82%	93.70%	91.51%	91.68%	94.35%
				Sa	92	92	89	96	96	97.	86	93	91.	91.	94
	า Data	Avg. Tracer	Conc.	(ppt)	327	439	418	417	437	440	463	437	432	442	453
	Sampling Train Data	Stop	Time	(min)	10	10	20	2	2	4	2	15	15	10	7
	Sar	Start	Time	(min)	0	0	0	0	0	0	0	1	2	2	2
		Sampling	Duration	(min)	10	10	20	2	5	4	2	14	10	2	2
	Equation ^a			"a"	-0.0156	-0.0165	-0.0114	-0.0131	-0.0130	-0.0126	-0.0119	-0.0082	6800.0-	-0.0116	-0.0097
ata	Equ			"C	353	476	467	431	451	452	469	467	472	482	480
OGI Data	conditions	Plume	Volume	(m ₃)	1026.43	960.17	976.90	1057.41	1009.29	1008.68	976.11	979.83	968.70	949.19	951.86
	Initial Co	Tracer	Conc.	(ppt)	353	476	467	431	451	452	469	467	472	482	480
			NEW	(qI)	0.22	0.19	0.19	0.32	0.32	0.28	0.42	1.67	0.32	0.28	6.12
				Date	28-Mar-98	28-Mar-98	28-Mar-98	30-Mar-98	30-Mar-98	30-Mar-98	30-Mar-98	31-Mar-98	31-Mar-98	01-Apr-98	01-Apr-98
			Run	No.	BT-2	FA-1	FA-2	HG-1	HG-2	GB-1	GB-2	GS-1	GP-1	WP-2	IR-1

NEW = Net Weight Explosive OGI = Oregon Graduate Institute PM₁₀ = Particulate matter less than 10 microns ppt = parts per trillion

Table B-3. Fraction of Initial Plume Sampled for SVOC, HCI/Cl2, and Dioxin/Furan Data

No. Date Initial Conditions Equation* Sampling Start Duration Start Duration Sampling Start Duration Start Duration Time					OGI Data	ata						
Nome Tracer Plume Sampling Nome Conc. Volume "C" "a" (min) 28-Mar-98 0.22 353 1026.43 353 -0.0156 25 28-Mar-98 0.19 476 960.17 476 -0.0165 30 28-Mar-98 0.19 467 976.90 467 -0.0165 30 30-Mar-98 0.32 451 1057.41 431 -0.0131 20 30-Mar-98 0.32 451 1009.29 451 -0.0136 15 30-Mar-98 0.28 452 1008.68 452 -0.0126 15 30-Mar-98 0.28 452 1008.68 452 -0.0126 15 31-Mar-98 0.32 472 979.83 467 -0.0082 29 31-Mar-98 0.32 472 968.70 -0.0116 25 01-Apr-98 0.28 482 949.19 -0.0016 -0.0016 5				Initial C	Conditions	Equ	ation ^a		San	Sampling Train Data	n Data	
NeW Conc. Volume Conc. Wolume (Ib) (ppt) (m³) (m³) (min) (mi				Tracer	Plume			Sampling	Start	Stop	Avg. Tracer	Percent
Vo. Date (lb) (ppt) (m³) "C" "a" (min) 28-Mar-98 0.22 353 1026.43 353 -0.0156 25 28-Mar-98 0.19 476 960.17 476 -0.0165 30 28-Mar-98 0.19 467 976.90 467 -0.0114 30 30-Mar-98 0.32 451 1067.41 431 -0.0131 20 30-Mar-98 0.32 451 1009.29 451 -0.0130 15 30-Mar-98 0.28 452 1008.68 452 -0.0126 15 30-Mar-98 0.42 469 976.11 469 -0.0126 15 31-Mar-98 0.32 472 968.70 472 -0.0089 25 01-Apr-98 0.28 482 949.19 482 -0.0116 25			NEW	Conc.	Volume			Duration	Time	Time	Conc.	Plume
28-Mar-98 0.22 353 1026.43 353 -0.0156 25 28-Mar-98 0.19 476 960.17 476 -0.0165 30 28-Mar-98 0.19 467 976.90 467 -0.0114 30 30-Mar-98 0.32 451 1009.29 451 -0.0130 15 30-Mar-98 0.28 452 1008.68 452 -0.0126 15 30-Mar-98 0.42 469 976.11 469 -0.0119 10 31-Mar-98 0.32 472 979.83 467 -0.0082 29 31-Mar-98 0.32 472 968.70 472 -0.0089 25 01-Apr-98 0.28 482 949.19 482 -0.0116 25	Run No.	Date	(qI)	(ppt)	(m ₃)	"C	"a"	(min)	(min)	(min)	(ppt)	Sampled
28-Mar-98 0.19 476 960.17 476 -0.0165 30 28-Mar-98 0.19 467 976.90 467 -0.0114 30 30-Mar-98 0.32 451 1009.29 451 -0.0130 15 30-Mar-98 0.28 452 1008.68 452 -0.0126 15 30-Mar-98 0.42 469 976.11 469 -0.0119 10 31-Mar-98 1.67 467 979.83 467 -0.0082 29 31-Mar-98 0.32 472 968.70 472 -0.0089 25	BT-2	28-Mar-98	0.22	353	1026.43	353	-0.0156	25	0	25	293	82.81%
28-Mar-98 0.19 467 976.90 467 -0.0114 30 30-Mar-98 0.32 431 1057.41 431 -0.0131 20 30-Mar-98 0.32 451 1009.29 451 -0.0130 15 30-Mar-98 0.28 452 1008.68 452 -0.0126 15 30-Mar-98 0.42 469 976.11 469 -0.0119 10 31-Mar-98 1.67 467 979.83 467 -0.0082 29 31-Mar-98 0.32 472 968.70 472 -0.0089 25 01-Apr-98 0.28 482 949.19 482 -0.0116 25	FA-1	28-Mar-98	0.19	476	960.17	476	-0.0165	30	0	90	376	78.87%
30-Mar-98 0.32 451 1057.41 431 -0.0131 20 30-Mar-98 0.28 452 1008.68 452 -0.0126 15 30-Mar-98 0.42 469 976.11 469 -0.0119 10 31-Mar-98 1.67 467 979.83 467 -0.0082 29 31-Mar-98 0.32 472 968.70 472 -0.0089 25 01-Apr-98 0.28 482 949.19 482 -0.0116 25	FA-2	28-Mar-98	0.19	467	976.90	467	-0.0114	30	0	30	396	84.69%
30-Mar-98 0.32 451 1009.29 451 -0.0130 15 30-Mar-98 0.28 452 1008.68 452 -0.0126 15 30-Mar-98 0.42 469 976.11 469 -0.0119 10 31-Mar-98 1.67 467 979.83 467 -0.0082 29 31-Mar-98 0.32 472 968.70 472 -0.0089 25 01-Apr-98 0.28 482 949.19 482 -0.0116 25	HG-1	30-Mar-98	0.32	431	1057.41	431	-0.0131	20	0	20	379	87.97%
30-Mar-98 0.28 452 1008.68 452 -0.0126 15 30-Mar-98 0.42 469 976.11 469 -0.0119 10 31-Mar-98 0.32 472 968.70 472 -0.0089 25 01-Apr-98 0.28 482 949.19 482 -0.0116 25	HG-2	30-Mar-98	0.32	451	1009.29	451	-0.0130	15	0	15	410	90.85%
30-Mar-98 0.42 469 976.11 469 -0.0119 10 10 31-Mar-98 1.67 467 979.83 467 -0.0082 29 31-Mar-98 0.32 472 968.70 472 -0.0089 25 01-Apr-98 0.28 482 949.19 482 -0.0116 25 01 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	GB-1	30-Mar-98	0.28	452	1008.68	452	-0.0126	15	0	15	412	91.12%
31-Mar-98 1.67 467 979.83 467 -0.0082 29 31-Mar-98 0.32 472 968.70 472 -0.0089 25 01-Apr-98 0.28 482 949.19 482 -0.0116 25	GB-2	30-Mar-98	0.42	469	976.11	469	-0.0119	10	0	10	442	94.28%
1 31-Mar-98 0.32 472 968.70 472 -0.0089 25 2 01-Apr-98 0.28 482 949.19 482 -0.0116 25	GS-1	31-Mar-98	1.67	467	979.83	467	-0.0082	29	1	30	412	88.27%
2 01-Apr-98 0.28 482 949.19 482 -0.0116 25	GP-1	31-Mar-98	0.32	472	968.70	472	-0.0089	25	5	30	405	85.75%
01 Am. 00 6 13 480 051 06 480 0007 E	WP-2	01-Apr-98	0.28	482	949.19	482	-0.0116	25	5	30	395	81.91%
01-Apr-30 0:12 460 351:60 460 2:0037 5	IR-1	01-Apr-98	6.12	480	951.86	480	-0.0097	5	5	10	447	92.99%

Cl₂ = Chlorine
HCl = Hydrogen Chloride
NEW = Net Explosive Weight
OGl = Oregon Graduate Institute
ppt = parts per trillion
SVOC = Semivolatile Organic Compound

Table B-4. Fraction of Initial Plume Sampled for CEM Data

L	OGI Data		(:	-
Initial Conditions	Equation		Š	Sampling Train Data	n Data
Tracer Plume		Sampling	Start	Stop	Avg. Tracer
NEW Conc. Volume	Φ.	Duration	Time	Time	Conc.
(lb) (ppt) (m³)	"C" "a"	(min)	(min)	(min)	(ppt)
0.22 353 1026.43	13 353 -0.0156	56 25	0	25	293
0.19 476 960.17	7 476 -0.0165	65 30	0	30	376
0.19 467 976.90					
0.32 431 1057.41) 467 -0.0114		0	30	396
0.32 451 1009.29	467		0 0	30	396
0.28 452 1008.68	467 431 451		000	30	396 356 374
0.42 469 976.11	467 431 451 452		0000	30	396 356 374 376
1.67 467 979.83	467 431 451 452 469		00000	30 30 30	396 356 374 376 394
0.32 472 968.70	467 431 451 469 467		00000	30 30 30	396 356 374 376 394 414
0.28 482 949.19	467 431 451 452 469 467 472		000000	08 8 8 8 8 8	396 356 374 376 394 414 415
6.12 480 951.86	467 431 452 469 467 472 482		0000000	08 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	396 356 374 376 394 414 415

CEM = Continuous Emissions Monitoring NEW = Net Explosive Weight OGI = Oregon Graduate Institute ppt = parts per trillion

Table B-5. Fraction of Initial Plume Sampled for VOC Data

				OGI Data				
			Initial Co	Initial Conditions	Equ	Equation ^a	Sampling	Sampling Train Data
								Percent
		NEW	Tracer Conc.	Plume Volume			Tracer	Plume
Run No.	Date	(qI)	(ppt)	(m³)	"C"	"a"	Conc. (ppt)	Sampled
BT-2	28-Mar-98	0.22	353	1026.43	353	-0.0156	324	91.53%
FA-1	28-Mar-98	0.19	476	960.17	476	-0.0165	432	90.71%
FA-2	28-Mar-98	0.19	467	976.90	467	-0.0114	434	92.90%
HG-1	30-Mar-98	0.32	431	1057.41	431	-0.0131	868	92.36%
HG-2	30-Mar-98	0.32	451	1009.29	451	-0.0130	421	93.30%
GB-1	30-Mar-98	0.28	452	1008.68	452	-0.0126	419	92.78%
GB-2	30-Mar-98	0.42	469	976.11	469	-0.0119	437	93.23%
GS-1	31-Mar-98	1.67	467	979.83	467	-0.0082	448	95.95%
GP-1	31-Mar-98	0.32	472	968.70	472	6800.0-	446	94.29%
WP-2	01-Apr-98	0.28	482	949.19	482	-0.0116	439	91.04%
IR-1	01-Apr-98	6.12	480	951.86	480	7600.0-	445	92.64%

NEW = Net Explosive Weight
OGI = Oregon Graduate Institute
ppt = parts per trillion
VOC = Volatile Organic Compound



CALCULATION SHEET

Calc. No. 1

Signature	William L. McCarter	Date	10/21/98	Checked	John Carson	Date	10/22/98
Project	AEC Phase I Emissions Characterizat	ion				_ Job No	655257.05
Subject	Dilution Correction Factor Sample Cal	culation					

Purpose

To determine the percent plume sampled for concentration correction factor.

Example

Decay Equation For Simulator Flash Artillery M110 Run No. 1:

 $y = 476.26e^{-0.0165x}$

C = 476.26 Initial Tracer Concentration (y-intercept)

a = -0.0165 (slope of regression line)

0

Start Time (min) [A] =

Stop Time (min) [B] = 30

Sample Duration (min) [D] = 30

Methodology

1. The methodology consists of determining the average concentration by integrating the decay equation over the sample duration.

2. The methodology calculates the average tracer concentration for the appropriate sample duration.

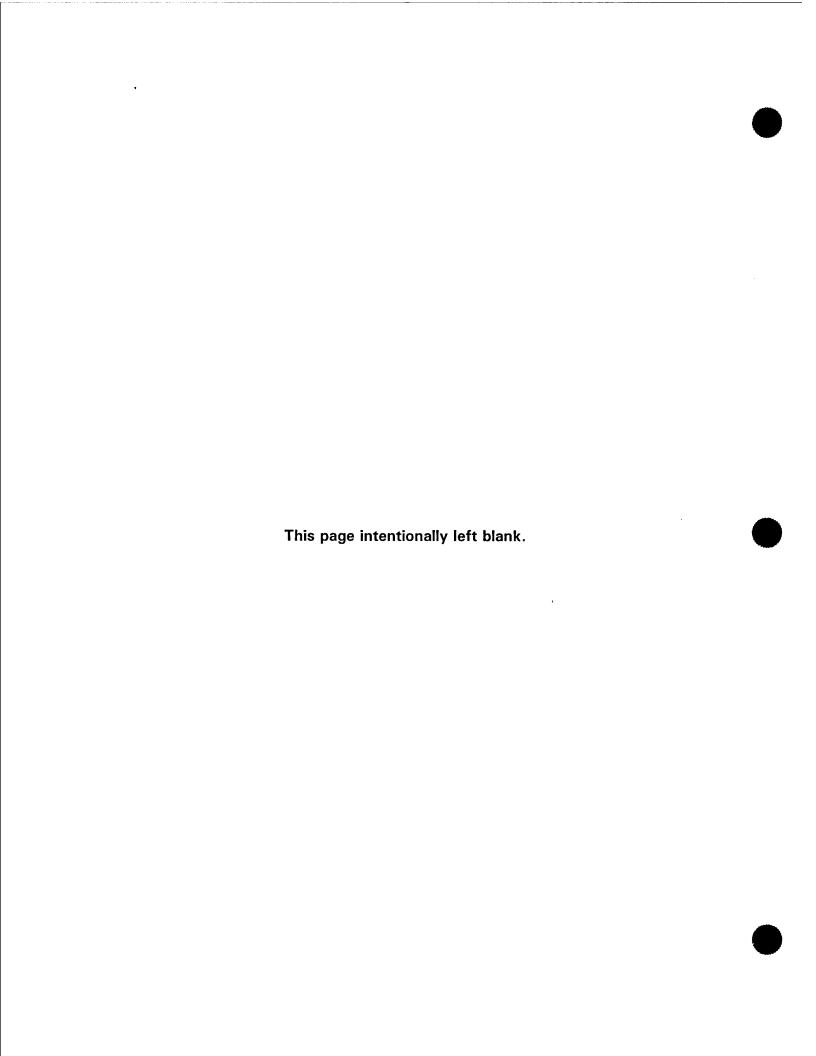
3. Knowing the initial concentration and the average concentration, the percent plumed sampled is then calculated from that ratio:

= 376

Percent Plume Sample = Average tracer concentration / C * 100

= 78.87

APPENDIX II-C. TSP/PM₁₀ DATA RESULTS



SIMULATOR BOOBY TRAP FLASH M117

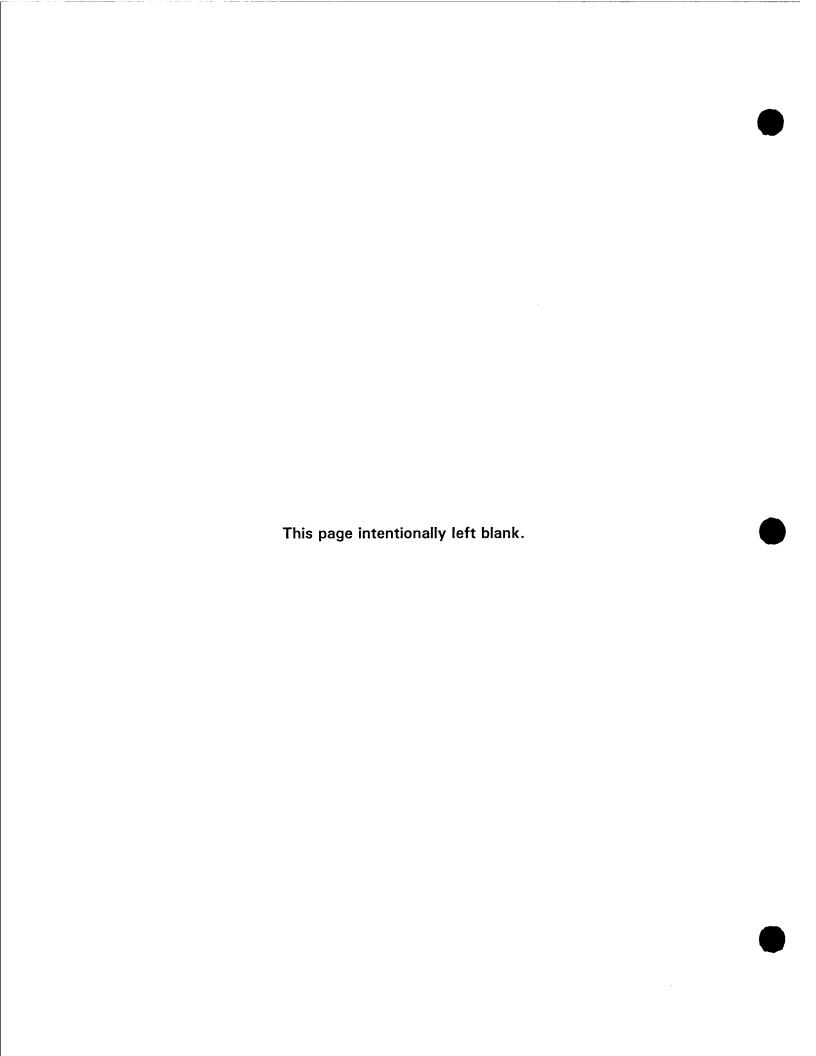


TABLE C-1. AEC - TSP and PM₁₀ FOR BT TEST (28 MARCH 1998)

Particulates Analysis of the Air Sample - 40 CFR 50 Appendix B; sample collected on filter PM₁₀ Analysis of the Air Sample - 40 CFR 50 Appendix J; sample collected on filter Analyzed by: Radian International LLC

Sample ID Number	Sample	Weight Gain, g	Concentration, mg/m ³	Average Concentration (a), mg/m³
DPG-451	Run 1 Train A TSP filter	0.6549	3.263E+01	3.056E+01
DPG-452	Run 1 Train B TSP filter	0.6869	2.850E+01	3.030=+01
DPG-461	Run 1 Train A PM ₁₀ filter	0.3199	3.639E+01	0.0000.04
DPG-462	Run 1 Train B PM ₁₀ filter	0.3557	DATA VOID	3.639E+01

a

Average concentration calculated for each run.

AEC = Army Environmental Center BT = Booby Trap Flash

Particulates Analysis of the Air Sample - 40 CFR 50 Appendix B; sample collected on filter PM_{10} Analysis of the Air Sample - 40 CFR 50 Appendix J; sample collected on filter Analyzed by: Radian International LLC

Sample ID Number	Sample	Weight Gain, g	Average Concentration, mg/m³
DPG-441	BT Background TSP filter	0.0035	8.255E-02
DPG-442	BT Background PM ₁₀ filter	0.0032	1.144E-01
DPG-951	Reagent Blank TSP filter	-0.0026	ND
DPG-961	Reagent Blank PM ₁₀ filter	-0.0002	ND
DPG-900/941	Field Blank TSP filter	-0.0037	ND
DPG-901/942	Field Blank PM ₁₀ filter	-0.0029	ND

AEC = Army Environmental Center

BT = Booby Trap Flash

SIMULATOR FLASH ARTILLERY M110

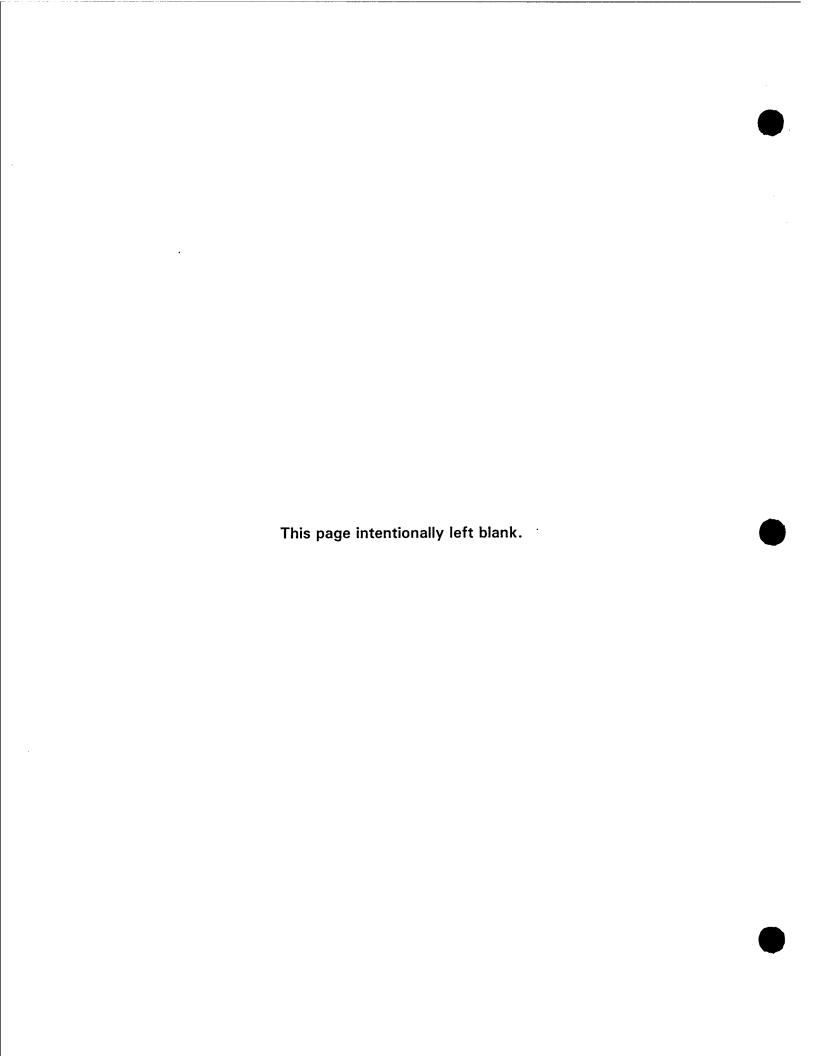


TABLE C-1. AEC - TSP and PM₁₀ FOR FA TEST (28 MARCH 1998)

Particulates Analysis of the Air Sample - 40 CFR 50 Appendix B; sample collected on filter PM₁₀ Analysis of the Air Sample - 40 CFR 50 Appendix J; sample collected on filter Analyzed by: Radian International LLC

Sample ID Number	Sample	Weight Gain, g	Concentration, mg/m ³	Average Concentration (a), mg/m ³
DPG-301	Run 1 Train A TSP filter	0.5860	2.316E+01	2.124E+01
DPG-302	Run 1 Train B TSP filter	0.5801	1.933E+01	
DPG-311	Run 1 Train A PM ₁₀ filter	0.2466	2.875E+01	2.875E+01
DPG-312	Run 1 Train B PM ₁₀ filter	0.2688	DATA VOID	2.0/55+01
DPG-351	Run 2 Train A TSP filter	0.4906	1.939E+01	1.7545.04
DPG-352	Run 2 Train B TSP filter	0.4712	1.570E+01	1.754E+01
DPG-361	Run 2 Train A PM ₁₀ filter	0.3003	3.501E+01	2 5015 . 01
DPG-362	Run 2 Train B PM ₁₀ filter	0.3362	DATA VOID	3.501E+01

a

Average concentration calculated for each run.

AEC = Army Environmental Center FA = Simulator Flash Artillery

Particulates Analysis of the Air Sample - 40 CFR 50 Appendix B; sample collected on filter PM_{10} Analysis of the Air Sample - 40 CFR 50 Appendix J; sample collected on filter Analyzed by: Radian International LLC

Sample ID Number	Sample	Weight Gain, g	Average Concentration, mg/m³
DPG-341	FA Background TSP filter	-0.0001	-2.672E-03
DPG-342	FA Background PM ₁₀ filter	0.0005	1.793E-02
DPG-951	Reagent Blank TSP filter	-0.0026	ND
DPG-961	Reagent Blank PM ₁₀ filter	-0.0002	ND
DPG-900/941	Field Blank TSP filter	-0.0037	ND
DPG-901/942	Field Blank PM ₁₀ filter	-0.0029	ND

AEC = Army Environmental Center

FA = Simulator Flash Artillery

SIMULATOR HAND GRENADE

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TABLE C-1. AEC - TSP and PM₁₀ FOR HG TEST (30 MARCH 1998)

Particulates Analysis of the Air Sample - 40 CFR 50 Appendix B; sample collected on filter PM₁₀ Analysis of the Air Sample - 40 CFR 50 Appendix J; sample collected on filter Analyzed by: Radian International LLC

Sample ID Number	Sample	Weight Gain, g	Concentration, mg/m³	Average Concentration (a), mg/m³
DPG-201	Run 1 Train A TSP filter	0.9240	1.291E+02	1.1005.00
DPG-202	Run 1 Train B TSP filter	0.9317	1.075E+02	1.183E+02
DPG-211	Run 1 Train A PM ₁₀ filter	0.5243	1.340E+02	1 400 - 00
DPG-212	Run 1 Train B PM ₁₀ filter	0.5491	1.464E+02	1.402E+02
DPG-251	Run 2 Train A TSP filter	1.2870	1.798E+02	4.0055.00
DPG-252	Run 2 Train B TSP filter	1.3282	1.532E+02	1.665E+02
DPG-261	Run 2 Train A PM ₁₀ filter	0.7267	1.858E+02	1.0545.00
DPG-262	Run 2 Train B PM ₁₀ filter	0.7687	2.050E+02	1.954E+02

Average concentration calculated for each run.

AEC = Army Environmental Center HG = Simulator Hand Grenade

Particulates Analysis of the Air Sample - 40 CFR 50 Appendix B; sample collected on filter PM₁₀ Analysis of the Air Sample - 40 CFR 50 Appendix J; sample collected on filter Analyzed by: Radian International LLC

Sample ID Number	Sample	Weight Gain, g	Average Concentration, mg/m³
DPG-241	HG Background TSP filter	-0.0025	-6.288E-02
DPG-242	HG Background PM ₁₀ filter	-0.0238	-8.049E-01
DPG-951	Reagent Blank TSP filter	-0.0026	ND
DPG-961	Reagent Blank PM ₁₀ filter	-0.0002	ND
DPG-900/941	Field Blank TSP filter	-0.0037	ND
DPG-901/942	Field Blank PM ₁₀ filter	-0.0029	ND

AEC = Army Environmental Center HG = Simulator Hand Grenade SIMULATOR GROUND BURST

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TABLE C-1. AEC - TSP and PM₁₀ FOR GB TEST (30 MARCH 1998)

Particulates Analysis of the Air Sample - 40 CFR 50 Appendix B; sample collected on filter PM_{10} Analysis of the Air Sample - 40 CFR 50 Appendix J; sample collected on filter Analyzed by: Radian International LLC

Sample ID Number	Sample	Weight Gain, g	Concentration, mg/m³	Average Concentration (a), mg/m ³
DPG-101	Run 1 Train A TSP filter	0.9579	1.127E+02	1.041E+02
DPG-102	Run 1 Train B TSP filter	0.9814	9.546E+01	
DPG-111	Run 1 Train A PM ₁₀ filter	0.4100	1.123E+02	1.259E+02
DPG-112	Run 1 Train B PM ₁₀ filter	0.4609	1.395E+02	1.2595+02
DPG-151	Run 2 Train A TSP filter	0.8747	1.029E+02	0.4075+01
DPG-152	Run 2 Train B TSP filter	0.8766	8.527E+01	9.407E+01
DPG-161	Run 2 Train A PM ₁₀ filter	0.3817	1.045E+02	1.103E+02
DPG-162	Run 2 Train B PM ₁₀ filter	0.3837	1.161E+02	1.103E+02

a Average concentration calculated for each run.

AEC = Army Environmental Center GB = Simulator Ground Burst

Particulates Analysis of the Air Sample - 40 CFR 50 Appendix B; sample collected on filter PM_{10} Analysis of the Air Sample - 40 CFR 50 Appendix J; sample collected on filter Analyzed by: Radian International LLC

Sample ID Number	Sample	Weight Gain, g	Average Concentration, mg/m³
DPG-241	HG Background TSP filter	-0.0025	-6.288E-02
DPG-242	HG Background PM ₁₀ filter	-0.0238	-8.049E-01
DPG-951	Reagent Blank TSP filter	-0.0026	ND
DPG-961	Reagent Blank PM ₁₀ filter	-0.0002	ND
DPG-900/941	Field Blank TSP filter	-0.0037	ND
DPG-901/942	Field Blank PM ₁₀ filter	-0.0029	ND

AEC = Army Environmental Center

GREEN STAR CLUSTER

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TABLE C-1. AEC - TSP and PM₁₀ FOR GS TEST (31 MARCH 1998)

Particulates Analysis of the Air Sample - 40 CFR 50 Appendix B; sample collected on filter PM₁₀ Analysis of the Air Sample - 40 CFR 50 Appendix J; sample collected on filter Analyzed by: Radian International LLC

Sample ID Number	Sample	Weight Gain, g	Concentration, mg/m³	Average Concentration (a), mg/m³
DPG-801	Run 1 Train A TSP filter	0.6996	3.399E+01	0.0705.04
DPG-802	Run 1 Train B TSP filter	0.7025	2.745E+01	3.072E+01
DPG-811	Run 1 Train A PM ₁₀ filter	0.3056	2.474E+01	0.7005 04
DPG-812	Run 1 Train B PM ₁₀ filter	0.3914	3.049E+01	2.762E+01

a

Average concentration calculated for each run.

AEC = Army Environmental Center GS = Green Star Cluster

Particulates Analysis of the Air Sample - 40 CFR 50 Appendix B; sample collected on filter PM₁₀ Analysis of the Air Sample - 40 CFR 50 Appendix J; sample collected on filter Analyzed by: Radian International LLC

Sample ID Number	Sample	Weight Gain, g	Average Concentration, mg/m ³
DPG-741	WP Background TSP filter	0.0015	3.893E-02
DPG-742	WP Background PM ₁₀ filter	0.0027	9.455E-02
DPG-951	Reagent Blank TSP filter	-0.0026	ND
DPG-961	Reagent Blank PM ₁₀ filter	-0.0002	ND
DPG-900/941	Field Blank TSP filter	-0.0037	ND
DPG-901/942	Field Blank PM ₁₀ filter	-0.0029	ND

AEC = Army Environmental Center

GREEN PARACHUTE SIGNAL FLARE

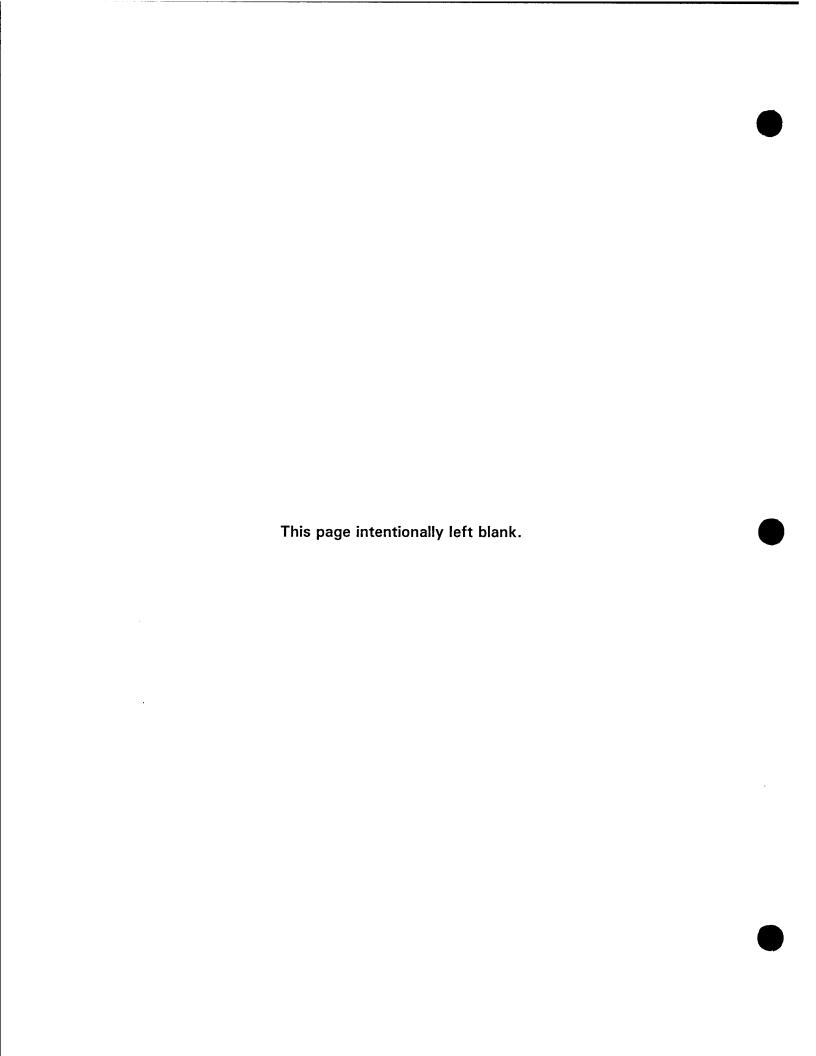


TABLE C-1. AEC - TSP and PM₁₀ FOR GP TEST (31 MARCH 1998)

Particulates Analysis of the Air Sample - 40 CFR 50 Appendix B; sample collected on filter PM_{10} Analysis of the Air Sample - 40 CFR 50 Appendix J; sample collected on filter Analyzed by: Radian International LLC

Sample ID Number	Sample was 1	Weight Gain, g	Concentration, mg/m³	Average Concentration (a), mg/m ³
DPG-601	Run 1 Train A TSP filter	0.8734	6.058E+01	
DPG-602	Run 1 Train B TSP filter	0.8782	4.948E+01	5.503E+01
DPG-611	Run 1 Train A PM ₁₀ filter	0.3787	4.418E+01	4.0505.04
DPG-612	Run 1 Train B PM ₁₀ filter	0.4867	5.300E+01	4.859E+01

a

Average concentration calculated for each run.

AEC = Army Environmental Center GP = Green Parachute Signal Flare

Particulates Analysis of the Air Sample - 40 CFR 50 Appendix B; sample collected on filter PM₁₀ Analysis of the Air Sample - 40 CFR 50 Appendix J; sample collected on filter Analyzed by: Radian International LLC

Sample ID Number	Sample	Weight Gain, g	Average Concentration, mg/m ³
DPG-741	WP Background TSP filter	0.0015	3.893E-02
DPG-742	WP Background PM ₁₀ filter	0.0027	9.455E-02
DPG-951	Reagent Blank TSP filter	-0.0026	ND
DPG-961	Reagent Blank PM ₁₀ filter	-0.0002	ND
DPG-900/941	Field Blank TSP filter	-0.0037	ND
DPG-901/942	Field Blank PM ₁₀ filter	-0.0029	ND

AEC = Army Environmental Center

WHITE PARACHUTE SIGNAL FLARE

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TABLE C-1. AEC - TSP and PM₁₀ FOR WP TEST (1 APRIL 1998)

Particulates Analysis of the Air Sample - 40 CFR 50 Appendix B; sample collected on filter PM_{10} Analysis of the Air Sample - 40 CFR 50 Appendix J; sample collected on filter Analyzed by: Radian International LLC

supplied the same of the same	Sample	Weight Gain, g	Concentration, mg/m ³	Average Concentration (a), mg/m³	
DPG-751	Run 1 Train A TSP filter	0.9331	9.437E+01	0.0005.04	
DPG-752	Run 1 Train B TSP filter	0.9397	7.819E+01	8.628E+01	
DPG-761	Run 1 Train A PM ₁₀ filter	0.3170	7.545E+01	7.736E+01	
DPG-762	Run 1 Train B PM ₁₀ filter	0.3629	7.928E+01		

a

Average concentration calculated for each run.

AEC = Army Environmental Center WP = White Parachute Signal Flare

Particulates Analysis of the Air Sample - 40 CFR 50 Appendix B; sample collected on filter PM_{10} Analysis of the Air Sample - 40 CFR 50 Appendix J; sample collected on filter Analyzed by: Radian International LLC

Sample ID Number	Sample	Weight Gain, g	Average Concentration, mg/m³
DPG-741	WP Background TSP filter	0.0015	3.893E-02
DPG-742	WP Background PM ₁₀ filter	0.0027	9.455E-02
DPG-951	Reagent Blank TSP filter	-0.0026	ND
DPG-961	Reagent Blank PM ₁₀ filter	-0.0002	ND
DPG-900/941	Field Blank TSP filter	-0.0037	ND
DPG-901/942	Field Blank PM ₁₀ filter	-0.0029	ND

AEC = Army Environmental Center WP = White Parachute Signal Flare

155 MM ILLUMINATION ROUND

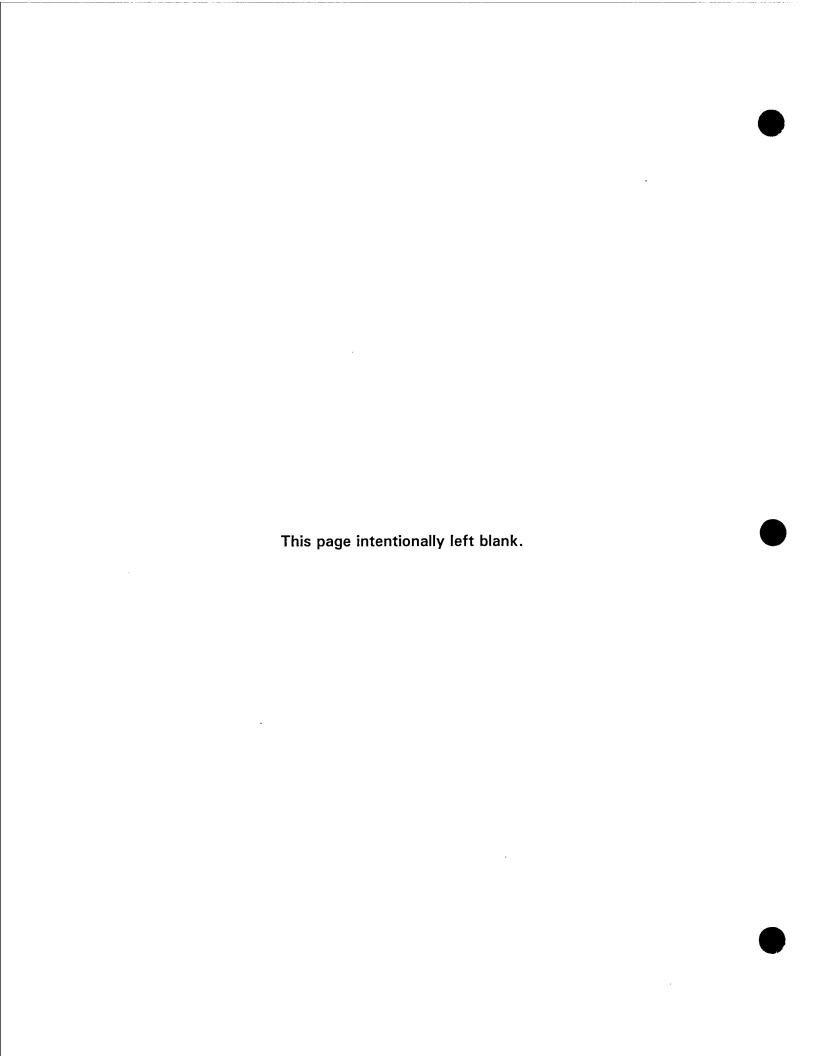


TABLE C-1. AEC - TSP and PM_{10} FOR IR TEST (1 APRIL 1998)

Particulates Analysis of the Air Sample - 40 CFR 50 Appendix B; sample collected on filter PM₁₀ Analysis of the Air Sample - 40 CFR 50 Appendix J; sample collected on filter Analyzed by: Radian International LLC

Sample ID Number	Sample	Weight Gain, g	Concentration, mg/m ³	Average Concentration (a), mg/m ³	
DPG-501	Run 1 Train A TSP filter	1.3018	9.291E+02	4.400= 00	
DPG-502	Run 1 Train B TSP filter	2.5131	1.396E+03	1.163E+03	
DPG-511	Run 1 Train A PM ₁₀ filter	2.1325	1.780E+03	1.666E+03	
DPG-512	Run 1 Train B PM ₁₀ filter	1.9271	1.552E+03		

Average concentration calculated for each run.

AEC = Army Environmental Center IR = 155mm Illumination Round

Particulates Analysis of the Air Sample - 40 CFR 50 Appendix B; sample collected on filter PM_{10} Analysis of the Air Sample - 40 CFR 50 Appendix J; sample collected on filter Analyzed by: Radian International LLC

Sample ID Number	Sample	Weight Gain, g	Average Concentration, mg/m³
DPG-541	IR Background TSP filter	-0.0010	ND
DPG-542	IR Background PM ₁₀ filter	-0.0005	ND
DPG-951	Reagent Blank TSP filter	-0.0026	ND
DPG-961	Reagent Blank PM ₁₀ filter	-0.0002	ND
DPG-900/941	Field Blank TSP filter	-0.0037	ND
DPG-901/942	Field Blank PM ₁₀ filter	-0.0029	ND

AEC = Army Environmental Center IR = 155mm Illumination Round

APPENDIX II-D. METALS DATA RESULTS

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SIMULATOR BOOBY TRAP FLASH M117

TABLE D-1. AEC - RUN NO. 1 BT TEST (28 MARCH 1998)Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29
Compounds below the DLs are listed as nondetected (ND)
Analyzed by: Radian International LLC

Analyte	Run 1 Train A - Amount Detected, mg/kg (a)	Run 1 Train A -Detection Limit, mg/kg	Run 1 Train A - Concentration, mg/m³	Run 1 Train B - Amount Detected, mg/kg (a)	Run 1 Train B -Detection Limit, mg/kg	Run 1 Train B - Concentration, mg/m³	Average Concentration - Run 1, mg/m³
Aluminum	2940	65.7	9.592E-02	2800	66.2	7.979E-02	8.785E-02
Antimony	269000	4.63	8.777E+00	279000	4.66	7.950E+00	8.363E+00
Arsenic	536	3.08	1.749E-02	222	3.11	1.587E-02	1.668E-02
Barium	41.3	0.296	1.347E-03	51.4	0.298	1.465E-03	1.406E-03
Beryllium	0.355	1.46	ND	0.684	1.47	QN	2
Cadmium	2.17	986.0	7.080E-05	2.11	0.389	6.013E-05	6.546E-05
Chromium	44.1	0.771	1.439E-03	48.8	0.777	1.391E-03	1.415E-03
Cobalt	2.73	0.745	8.907E-05	2.91	0.75	8.292E-05	8.600E-05
Copper	459	3.36	1.498E-02	498	3.38	1.419E-02	1.458E-02
Lead	698	3.06	2.277E-02	722	3.08	2.057E-02	2.167E-02
Magnesium	45500	5.88	1.485E+00	75600	5.92	2.154E+00	1.819E+00
Manganese	128	0.28	4.176E-03	131	0.282	3.733E-03	3.955E-03
Nickel	7.92	1.6	2.584E-04	8.16	1.61	2.325E-04	2.455E-04
Phosphorus	7300	7.39	2.382E-01	7530	7.45	2.146E-01	2.264E-01
Selenium	5.86	2.8	1.912E-04	5.91	2.82	1.684E-04	1.798E-04
Silver	11.5	1.14	3.752E-04	11.7	1.15	3.334E-04	3.543E-04
Thallium	ND	4.4	ND	QN	4.44	QN	Q.
Zinc	308	4.1	1.005E-02	307	4.13	8.748E-03	9.399E-03
Mercury (b)	ND	ND	ND	ΔN	QΝ	QN	ND

Metals data for results with no dilution (i.e., dilution factor equal to 1) were used to calculate emission factors.

Analytical data not available for analysis.

TABLE D-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29

Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

	Background - Amount Backg	Background - Detection Limit	Background - Concentration,	Reagent Blank - Amount	Reagent Blank - Detection Limit.	Field Blank - Amount	Field Blank - Detection Limit.
Analyte	(a)	mg/kg	mg/m³	Detected, mg/kg	mg/kg	Detected, mg/kg	mg/kg
Aluminum	QN	38.9	QN	QN	38.9	QN	38.9
Antimony	Q	2.74	QN	QN	2.74	GN	2.74
Arsenic	QV	1.83	QN	ND	1.83	QN	1.83
Barium	Q	0.175	QN	QN	0.175	QN	0.175
Beryllium	QN	0.866	QN	QN	998.0	QN	0.866
Cadmium	QN	0.229	ND	ND	0.229	QN	0.229
Chromium	ON	0.457	QN	ND	0.457	ON	0.457
Cobalt	QN	0.441	ND	ND	0.441	QN	0.441
Copper	QN	1.99	ND	ND	1.99	ND	1.99
Lead	QN	1.81	ND	ND	1.81	QN	1.81
Magnesium	ND	3.48	QN	ND	3.48	ND	3.48
Manganese	ND	0.166	ND	ND	0.166	ND	0.166
Nickel	QN	0.948	ΩN	ND	0.948	ND	0.948
Phosphorus	QN	4.38	ΠN	ND	4.38	ND	4.38
Selenium	QN	1.66	QΝ	ND	1.66	ND	1.66
Silver	ND	0.675	QN	ND	0.675	ON	0.675
Thallium	ND	2.61	ΠN	QN	2.61	QN	2.61
Zinc	QN	2.43	ΩN	QN	2.43	QN	2.43
Mercury	ND	0.0171	QΝ	QN	0.0171	QN	0.0171

Insignificant particulate loading occurred and no particulate phase metals were derived.

TABLE D-3. AEC - RUN NO. 1 BT TEST (28 MARCH 1998)

Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29 Compounds below the DLs are listed as nondetected (ND)

Analyzed by: Radian International LLC

Analyte	A -Detection	Run 1 Train B -Detection Limit, mg/kg	Detection Limit - Concentration,	Average Minimum Detection Limit - Concentration, mg/m ³
Aluminum	65.7	66.2	2.011E-03	1.995E-03
Antimony	4.63	4.66	1.415E-04	1.406E-04
Arsenic	3.08	3.11	9.446E-05	9.355E-05
Barium	0.296	0.298	9.051E-06	8.990E-06
Beryllium	1.46	1.47	4.465E-05	4.434E-05
Cadmium	0.386	0.389	1.181E-05	1.172E-05
Chromium	0.771	0.777	2.360E-05	2.342E-05
Cobalt	0.745	0.75	2.278E-05	2.263E-05
Copper	3.36	3.38	1.027E-04	1.021E-04
Lead	3.06	3.08	9.355E-05	9.294E-05
Magnesium	5.88	5.92	1.798E-04	1.786E-04
Manganese	0.28	0.282	8.565E-06	8.504E-06
Nickel	1.6	1.61	4.890E-05	4.860E-05
Phosphorus	7.39	7.45	2.263E-04	2.245E-04
Selenium	2.8	2.82	8.565E-05	8.504E-05
Silver	1.14	1.15	3.493E-05	3.462E-05
Thallium	4.4	4.44	1.349E-04	1.336E-04
Zinc	4.1	4.13	1.254E-04	1.245E-04
Mercury	ND	ND	0.000E+00	0.000E+00

SIMULATOR FLASH ARTILLERY M110

TABLE D-1. AEC - RUN NO. 1 FA TEST (28 MARCH 1998)
Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29
Compounds below the DLs are listed as nondetected (ND)
Analyzed by: Radian International LLC

Analyte	Run 1 Train A - Amount Detected, mg/kg (a)	Run 1 Train A -Detection Limit, mg/kg	Run 1 Train A - Concentration, mg/m³	Run 1 Train B - Amount Detected, mg/kg (a)	Run 1 Train B -Detection Limit, mg/kg	Run 1 Train B - Concentration, mg/m³	Average Concentration - Run 1, mg/m³
Aluminum	5330	57.4	1.234E-01	4500	57.4	8.698E-02	1.052E-01
Antimony	1010	4.05	2.339E-02	971	4.05	1.877E-02	2.108E-02
Arsenic	2.56	2.69	ON	1.37	2.7	ND	ND
Barium	57900	0.258	1.341E+00	27700	0.259	1.115E+00	1.228E+00
Beryllium	0.504	1.28	QN	0.434	1.28	QN	ND
Cadmium	4.05	0.337	9.379E-05	3.82	0.337	7.384E-05	8.381E-05
Chromium	140	0.673	3.242E-03	139	0.674	2.687E-03	2.964E-03
Cobalt	16.1	0.65	3.728E-04	15.6	0.651	3.015E-04	3.372E-04
Copper	1330	2.93	3.080E-02	1330	2.93	2.571E-02	2.825E-02
Lead	186	2.68	4.307E-03	187	2.68	3.615E-03	3.961E-03
Magnesium	343000	5.14	7.943E+00	341000	5.14	6.591E+00	7.267E+00
Manganese	201	0.244	4.655E-03	201	0.244	3.885E-03	4.270E-03
Nickel	7.51	1.4	1.739E-04	6.73	1.4	1.301E-04	1.520E-04
Phosphorus	87.1	6.46	2.017E-03	85.1	6.46	1.645E-03	1.831E-03
Selenium	ΩN	2.45	QN	1.49	2.45	ND	QN
Silver	0.823	966.0	QN	0.638	0.997	ND	ND
Thallium	2.03	3.85	QN	QN	3.85	ON	QN
Zinc	258	3.58	5.975E-03	257	3.58	4.968E-03	5.471E-03
Mercury (b)	ND	ND	ON	QN	QN	QN	ND

Metals data for results with no dilution (i.e., dilution factor equal to 1) were used to calculate emission factors. b

Analytical data not available for analysis.

TABLE D-2. AEC - RUN NO. 2 FA TEST (28 MARCH 1998)

Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

	Run 2 Train A -			Run 2 Train B -			
	Amount Detected,	Run 2 Train A -Detection	Run 2 Train A - Concentration,	Amount Detected.	Run 2 Train B -Detection	Run 2 Train B - Concentration,	Average Concentration -
Analyte	mg/kg (a)	Limit, mg/kg	mg/m³	mg/kg (a)	Limit, mg/kg	mg/m³	Run 2, mg/m ³
Aluminum	7960	81.1	1.419E-01	5520	80	7.808E-02	1.100E-01
Antimony	574	5.72	1.023E-02	581	5.64	8.218E-03	9.225E-03
Arsenic	2.2	3.81	ND	2.31	3.76	QV	QN
Barium	71300	0.365	1.271E+00	00899	0.36	9.449E-01	1.108E+00
Beryllium	0.814	1.81	QN	0.938	1.78	Q	QN
Cadmium	8.16	0.477	1.455E-04	7.72	0.47	1.092E-04	1.273E-04
Chromium	198	0.952	3.529E-03	153	0.94	2.164E-03	2.847E-03
Cobalt	20.6	0.92	3.672E-04	19.5	0.907	2.758E-04	3.215E-04
Copper	1470	4.15	2.620E-02	1480	4.09	2.093E-02	2.357E-02
Lead	213	3.78	3.797E-03	216	3.73	3.055E-03	3.426E-03
Magnesium	267000	7.26	4.759E+00	163000	7.17	2.306E+00	3.532E+00
Manganese	279	0.345	4.973E-03	271	0.341	3.833E-03	4.403E-03
Nickel	12.3	1.98	2.192E-04	13	1.95	1.839E-04	2.016E-04
Phosphorus	153	9.13	2.727E-03	144	9.01	2.037E-03	2.382E-03
Selenium	ND	3.46	ND	QN	3.42	QN	QN
Silver	0.989	1.41	ND	0.691	1.39	QN	QN
Thallium	1.41	5.44	ND	3.81	5.37	QN	QN
Zinc	377	5.07	6.720E-03	399	2	5.644E-03	6.182E-03
Mercury (b)	ND	ND	ND	QN	QN	QN	QN

Metals data for results with no dilution (i.e., dilution factor equal to 1) were used to calculate emission factors. b

Analytical data not available for analysis.

TABLE D-3. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

Field Blank - Detection Limit, mg/kg	38.9	2.74	1.83	0.175	0.866	0.229	0.457	0.441	1.99	1.81	3.48	0.166	0.948	4.38	1.66	0.675	2.61	2.43	0.0171
Field Blank - Amount Detected, mg/kg	QN	QN	QN	QN	QN	QN	QN	DN	DN	QN	QN	QN	DN	QN	QN	QN	DN	QN	ND
Reagent Blank - Detection Limit, mg/kg	38.9	2.74	1.83	0.175	0.866	0.229	0.457	0.441	1.99	1.81	3.48	0.166	0.948	4.38	1.66	0.675	2.61	2.43	0.0171
Reagent Blank - Amount Detected, mg/kg	DN	ND	QN	QN	ND	ND	QN	ND	ON	QN	QN	QN	ND	QN	QN	QN	QN	QN	QN
Background - Concentration, mg/m³	QN	QN	QN	Q	QN	QN	QN	QN	QN	QN	QN	ND	QN	QN	QN	QN	QN	QN	ND
Background - Detection Limit, mg/kg	38.9	2.74	1.83	0.175	0.866	0.229	0.457	0.441	1.99	1.81	3.48	0.166	0.948	4.38	1.66	0.675	2.61	2.43	0.0171
Background - Background - Detected, mg/kg mg/kg	QN	Q	QN	Q	Ð	QN	Q	Q	QN	QN	QN	QN	QN	ΩN	QN	QN	QN	QN	ND
Analyte	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Magnesium	Manganese	Nickel	Phosphorus	Selenium	Silver	Thallium	Zinc	Mercury

Insignificant particulate loading occurred and no particulate phase metals were derived.

TABLE D-4. AEC - RUN NO. 1-2 FA TEST (28 MARCH 1998)

Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

					Average Maximum	- 4
	Run 1 Train A -Detection	Run 1 Train Run 1 Train Run 2 Train Run 2 Train A -Detection B -Detection A -Detection B -Detection	Run 2 Train Run 2 Train A -Detection B -Detection	Run 2 Train B -Detection	Detection Limit - Concentration,	Detection Limit - Concentration,
Analyte	Limit, mg/kg	Limit, mg/kg Limit, mg/kg	Limit, mg/kg Limit, mg/kg	Limit, mg/kg	mg/m³	mg/m³
Aluminum	57.4	57.4	81.1	80	1.486E-03	1.052E-03
Antimony	4.05	4.05	5.72	5.64	1.048E-04	7.420E-05
Arsenic	2.69	2.7	3.81	3.76	6.980E-05	4.928E-05
Barium	0.258	0.259	0.365	0.36	90-3289.9	4.727E-06
Beryllium	1.28	1.28	1.81	1.78	3.316E-05	2.345E-05
Cadmium	0.337	0.337	0.477	0.47	8.739E-06	6.174E-06
Chromium	0.673	0.674	0.952	0.94	1.744E-05	1.233E-05
Cobalt	0.65	0.651	0.92	0.907	1.685E-05	1.191E-05
Copper	2.93	2.93	4.15	4.09	7.603E-05	5.368E-05
Lead	2.68	2.68	3.78	3.73	6.925E-05	4.910E-05
Magnesium	5.14	5.14	7.26	7.17	1.330E-04	9.417E-05
Manganese	0.244	0.244	0.345	0.341	6.320E-06	4.470E-06
Nickel	1.4	1.4	1.98	1.95	3.627E-05	2.565E-05
Phosphorus	6.46	6.46	9.13	9.01	1.673E-04	1.183E-04
Selenium	2.45	2.45	3.46	3.42	6.339E-05	4.488E-05
Silver	966.0	0.997	1.41	1.39	2.583E-05	1.825E-05
Thallium	3.85	3.85	5.44	5.37	9.966E-05	7.053E-05
Zinc	3.58	3.58	5.07	5	9.288E-05	6.559E-05
Mercury	ΩN	ND	ON	ND	0.000E+00	0.000E+00

SIMULATOR HAND GRENADE

TABLE D-1. AEC - RUN NO. 1 HG TEST (30 MARCH 1998)Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29
Compounds below the DLs are listed as nondetected (ND)
Analyzed by: Radian International LLC

Analyte	Run 1 Train A - Amount Detected, mg/kg (a)	Run 1 Train A -Detection Limit, mg/kg	Run 1 Train A - Concentration, mg/m³	Run 1 Train B - Amount Detected, mg/kg (a)	Run 1 Train B -Detection Limit, mg/kg	Run 1 Train B - Concentration, mg/m³	Average Concentration - Run 1, mg/m³
Aluminum	77100	21.5	9.953E+00	110000	23.8	1.182E+01	1.089E+01
Antimony	121	3.09	1.562E-02	131	3.41	1.408E-02	1.485E-02
Arsenic	2.16	2.12	2.788E-04	2.92	2.34	3.138E-04	2.963E-04
Barium	236	0.235	3.047E-02	324	0.26	3.481E-02	3.264E-02
Beryllium	0.671	0.131	8.662E-05	0:308	0.145	3.320E-05	5.991E-05
Cadmium	1.65	0.262	2.130E-04	1.88	0.289	2.020E-04	2.075E-04
Chromium	3.9	0.462	5.035E-04	5.31	0.511	5.706E-04	5.370E-04
Cobalt	2.81	0.462	3.627E-04	2.89	0.511	3.105E-04	3.366E-04
Copper	103	1.13	1.330E-02	114	1.25	1.225E-02	1.277E-02
Lead	12.9	1.74	1.665E-03	12.4	1.93	1.332E-03	1.499E-03
Magnesium	94300	4.52	1.217E+01	131000	9	1.408E+01	1.312E+01
Manganese	102	0.201	1.317E-02	113	0.222	1.214E-02	1.265E-02
Nickel	9.38	902.0	1.211E-03	6.6	0.781	1.064E-03	1.137E-03
Phosphorus	94.1	4.96	1.215E-02	102	5.49	1.096E-02	1.155E-02
Selenium	1.36	1.68	ND	0.0579	1.86	QN	ON
Silver	ND	0.314	ND	QN	0.347	ND	ND
Thallium	ND	3.98	QN	QN	4.4	ND	DN
Zinc	78.4	3.78	1.012E-02	81.5	4.18	8.757E-03	9.439E-03
Mercury	0.00806	0.00919	QN	0.0147	0.00838	1.580E-06	1.580E-06

a Metals data for results with no dilution (i.e., dilution factor equal to 1) were used to calculate emission factors.

TABLE D-2. AEC - RUN NO. 2 HG TEST (30 MARCH 1998)
Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29
Compounds below the DLs are listed as nondetected (ND)
Analyzed by: Radian International LLC

	Run 2 Train A - Amount Detected,	Run 2 Train A -Detection	Run 2 Train A - Concentration,	Run 2 Train B - Amount Detected,	Run 2 Train B -Detection	Run 2 Train B - Concentration,	Average Concentration -
Analyte	mg/kg (a)	Limit, mg/kg	mg/m³	mg/kg (a)	Limit, mg/kg	mg/m³	Run 2, mg/m³
Aluminum	81100	15.5	1.465E+01	128000	22.5	1.988E+01	1.727E+01
Antimony	205	2.23	3.704E-02	216	3.23	3.356E-02	3.530E-02
Arsenic	1.91	1.53	3.451E-04	2.83	2.22	4.396E-04	3.924E-04
Barium	344	0.17	6.215E-02	454	0.247	7.053E-02	6.634E-02
Beryllium	0.227	0.0945	4.101E-05	0.183	0.137	2.843E-05	3.472E-05
Cadmium	1.93	0.189	3.487E-04	2.57	0.274	3.992E-04	3.740E-04
Chromium	4.84	0.334	8.745E-04	7.74	0.484	1.202E-03	1.038E-03
Cobalt	2.65	0.334	4.788E-04	3.53	0.484	5.484E-04	5.136E-04
Copper	194	0.819	3.505E-02	209	1.19	3.247E-02	3.376E-02
Lead	12.2	1.26	2.204E-03	12.4	1.83	1.926E-03	2.065E-03
Magnesium	00696	3.26	1.751E+01	149000	4.73	2.315E+01	2.033E+01
Manganese	111	0.145	2.006E-02	116	0.21	1.802E-02	1.904E-02
Nickel	10.8	0.51	1.951E-03	12.7	0.74	1.973E-03	1.962E-03
Phosphorus	166	3.59	2.999E-02	164	5.2	2.548E-02	2.773E-02
Selenium	QN	1.22	ON	2.17	1.76	3.371E-04	3.371E-04
Silver	QN	0.227	ND	QN	0.329	ND	ND
Thallium	0.227	2.87	ON	2.05	4.16	ND	ND
Zinc	132	2.73	2.385E-02	137	3.95	2.128E-02	2.257E-02
Mercury	0.0157	0.00425	2.837E-06	0.018	0.0038	2.796E-06	2.816E-06

Metals data for results with no dilution (i.e., dilution factor equal to 1) were used to calculate emission factors.

TABLE D-3. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

Analyte	Background - Background - Detected, mg/kg Detection Limit,	Background - Detection Limit,	Background - Concentration, mg/m³	Reagent Blank - Amount Detected, mg/kg	Reagent Blank - Detection Limit, mg/kg	Field Blank - Amount Detected, mg/kg	Field Blank - Detection Limit, mg/kg
Aluminum	QN	38.9	QN	QN	38.9	QN	38.9
Antimony	QN	2.74	QN	QN	2.74	ΩN	2.74
Arsenic	QN	1.83	QN	QN	1.83	QN	1.83
Barium	QN	0.175	QN	QN	0.175	QN	0.175
Beryllium	QN	0.866	ND	QN	0.866	QN	0.866
Cadmium	QN	0.229	ND	QN	0.229	QN	0.229
Chromium	QN	0.457	QN	QN	0.457	QN	0.457
Cobalt	QN	0.441	ON	QN	0.441	gn	0.441
Copper	DN	1.99	ON	QN	1.99	ΠN	1.99
Lead	QN	1.81	ON	QN	1.81	QN .	1.81
Magnesium	DN	3.48	ND	QN	3.48	QN	3.48
Manganese	QN	0.166	ND	QN	0.166	<u> </u>	0.166
Nickel	ON	0.948	ND	QN	0.948	QN	0.948
Phosphorus	ON	4.38	ND	QN	4.38	GN	4.38
Selenium	QN	1.66	ON	QN	1.66	GN	1.66
Silver	QN	0.675	ON	QN	0.675	QN	0.675
Thallium	QN	2.61	ND	DN	2.61	QN	2.61
Zinc	QN	2.43	ND	DN	2.43	QN	2.43
Mercury	ND	0.0171	ON	QN	0.0171	QN	0.0171

Insignificant particulate loading occurred and no particulate phase metals were derived.

TABLE D-4. AEC - RUN NO. 1-2 HG TEST (30 MARCH 1998)

Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

						: L
	Run 1 Train A -Detection	Run 1 Train B -Detection	Run 1 Train Run 1 Train Run 2 Train Run 2 Train A-Detection B-Detection	Run 2 Train B -Detection	Average Maximum Detection Limit - Concentration,	Average Minimum Detection Limit - Concentration,
Analyte	Limit, mg/kg	Limit, mg/kg	Limit, mg/kg Limit, mg/kg Limit, mg/kg Limit, mg/kg	Limit, mg/kg	mg/m³	mg/m³
Aluminum	21.5	23.8	15.5	22.5	3.378E-03	2.200E-03
Antimony	3.09	3.41	2.23	3.23	4.840E-04	3.165E-04
Arsenic	2.12	2.34	1.53	2.22	3.321E-04	2.171E-04
Barium	0.235	0.26	0.17	0.247	3.690E-05	2.413E-05
Beryllium	0.131	0.145	0.0945	0.137	2.058E-05	1.341E-05
Cadmium	0.262	0.289	0.189	0.274	4.102E-05	2.682E-05
Chromium	0.462	0.511	0.334	0.484	7.252E-05	4.740E-05
Cobalt	0.462	0.511	0.334	0.484	7.252E-05	4.740E-05
Copper	1.13	1.25	0.819	1.19	1.774E-04	1.162E-04
Lead	1.74	1.93	1.26	1.83	2.739E-04	1.788E-04
Magnesium	4.52	2	0.145	0.21	7.096E-04	2.058E-05
Manganese	0.201	0.222	0.145	0.21	3.151E-05	2.058E-05
Nickel	0.706	0.781	0.51	0.74	1.108E-04	7.238E-05
Phosphorus	4.96	5.49	3.59	5.2	7.792E-04	5.095E-04
Selenium	1.68	1.86	1.22	1.76	2.640E-04	1.732E-04
Silver	0.314	0.347	0.227	0.329	4.925E-05	3.222E-05
Thallium	3.98	4.4	2.87	4.16	6.245E-04	4.073E-04
Zinc	3.78	4.18	2.73	3.95	5.933E-04	3.875E-04
Mercury	0.00919	0.00838	0.00425	0.0038	1.304E-06	5.393E-07

SIMULATOR GROUND BURST

TABLE D-1. AEC - RUN NO. 1 GB TEST (30 MARCH 1998)

Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29

Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

Analyte	Run 1 Train A - Amount Detected, mg/kg (a)	Run 1 Train A -Detection Limit, mg/kg	Run 1 Train A - Concentration, mg/m³	Run 1 Train B - Amount Detected, mg/kg (a)	Run 1 Train B -Detection Limit, mg/kg	Run 1 Train B - Concentration,	Average Concentration - Run 1, mg/m³
Aluminum	56800	25.6	6.399E+00	124000	21.5	1.184E+01	9.118E+00
Antimony	115	3.67	1.296E-02	126	3.08	1.203E-02	1.249E-02
Arsenic	2.32	2:25	ND	2.42	2.12	2.310E-04	2.310E-04
Barium	203	0.28	2.287E-02	274	0.235	2.616E-02	2.451E-02
Beryllium	0.394	0.156	4.439E-05	0.131	0.131	1.251E-05	2.845E-05
Cadmium	1.57	0.311	1.769E-04	1.87	0.261	1.785E-04	1.777E-04
Chromium	4.02	95.0	4.529E-04	26'9	0.462	5.699E-04	5.114E-04
Cobalt	2.43	0.55	2.738E-04	3.99	0.462	3.809E-04	3.273E-04
Copper	167	1.35	1.881E-02	187	1.13	1.785E-02	1.833E-02
Lead	21	2.07	2.366E-03	22.5	1.74	2.148E-03	2.257E-03
Magnesium	78300	2:32	8.821E+00	141000	4.51	1.346E+01	1.114E+01
Manganese	216	0.239	2.433E-02	725	0.2	2.406E-02	2.420E-02
Nickel	11.2	0.84	1.262E-03	11.7	0.706	1.117E-03	1.189E-03
Phosphorus	386	6'9	4.349E-02	392	4.96	3.742E-02	4.045E-02
Selenium	ND	2	ND	0.131	1.68	ND	QN
Silver	ND	0.373	ND	QN	0.314	ND	QN
Thallium	0.591	4.73	ND	0.732	3.97	ND	QN
Zinc	139	4.49	1.566E-02	143	3.77	1.365E-02	1.466E-02
Mercury	0.0663	0.00548	7.469E-06	0.0647	0.00559	6.176E-06	6.823E-06

a Metals data for results with no dilution (i.e., dilution factor equal to 1) were used to calculate emission factors.

TABLE D-2. AEC - RUN NO. 2 GB TEST (30 MARCH 1998)

Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29

Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

	Run 2 Train A - Amount Detected	Run 2 Train	Run 2 Train A -	Run 2 Train B - Amount Detected	Run 2 Train	Run 2 Train B -	Average Concentration -
Analyte	mg/kg (a)	Limit, mg/kg	mg/m³	mg/kg (a)	Limit, mg/kg	mg/m³	Run 2, mg/m³
Aluminum	116000	24	2.757E+01	128000	25.3	2.414E+01	2.586E+01
Antimony	177	3.45	4.206E-02	187	3.63	3.527E-02	3.867E-02
Arsenic	1.42	2.37	QN	2.37	2.49	QN	QN
Barium	404	0.263	9.601E-02	476	0.277	8.978E-02	9.290E-02
Beryllium	0.283	0.146	6.725E-05	0.246	0.154	4.640E-05	5.683E-05
Cadmium	2.64	0.293	6.274E-04	2.37	0.308	4.470E-04	5.372E-04
Chromium	7.4	0.517	1.759E-03	8.74	0.544	1.649E-03	1.704E-03
Cobalt	3.31	0.517	7.866E-04	3.86	0.544	7.281E-04	7.573E-04
Copper	259	1.27	6.155E-02	267	1.33	5.036E-02	5.596E-02
Lead	24.2	1.95	5.751E-03	24.6	2.05	4.640E-03	5.196E-03
Magnesium	138000	5.05	3.280E+01	148000	5.32	2.792E+01	3.036E+01
Manganese	194	0.224	4.610E-02	194	0.236	3.659E-02	4.135E-02
Nickel	12.8	0.79	3.042E-03	12.1	0.832	2.282E-03	2.662E-03
Phosphorus	364	5.55	8.650E-02	898	5.84	6.847E-02	7.749E-02
Selenium	ND	1.88	DN	1.3	1.98	QN	QN
Silver	ND	0.351	QN	ΩN	0.37	QN	QN
Thallium	1.27	4.45	ND	0.524	4.68	ON	QN
Zinc	204	4.22	4.848E-02	182	4.45	3.433E-02	4.140E-02
Mercury	0.158	0.00792	3.755E-05	0.114	0.00731	2.150E-05	2.953E-05

a Metals data for results with no dilution (i.e., dilution factor equal to 1) were used to calculate emission factors.

TABLE D-3. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

E E E E E E E E E E E E E E E E E E E	Background - Background - Amount Detected, mg/kg mg/kg	Background - Detection Limit, mg/kg	Background - Concentration, mg/m³	Reagent Blank - Amount Detected, mg/kg	Reagent Blank - Detection Limit, mg/kg	Field Blank - Amount Detected, mg/kg	Field Blank - Detection Limit, mg/kg
Aluminum	QN	38.9	QN	QN	38.9	ND	38.9
Antimony	QN	2.74	QN	QN	2.74	Q	2.74
Arsenic	QN	1.83	ND	QN	1.83	ND	1.83
Barium	QN	0.175	ND	ΩN	0.175	ND	0.175
Beryllium	QN	998.0	ND	QN	0.866	ND	0.866
Cadmium	QN	0.229	ND	QN	0.229	ND	0.229
Chromium	QN	0.457	ND	QN	0.457	ND	0.457
Cobalt	QN	0.441	ND	QN	0.441	ND	0.441
Copper	QN	1.99	ND	QN	1.99	ND	1.99
Lead	QN	1.81	ND	QN	1.81	ND	1.81
Magnesium	QN	3.48	ND	QN	3.48	ND	3.48
Manganese	QN	0.166	ND	QN	0.166	ND	0.166
Nickel	Q	0.948	ND	QN	0.948	ND	0.948
Phosphorus	QN	4.38	ND	QN	4.38	ND	4.38
Selenium	QN	1.66	ND	QN	1.66	ND	1.66
Silver	QN	0.675	ND	QN	0.675	ND	0.675
Thallium	Q	2.61	ND	QN	2.61	ND	2.61
Zinc	QN	2.43	ND	QN	2.43	ND	2.43
Mercury	Q	0.0171	ND	QN	0.0171	ND	0.0171

Insignificant particulate loading occurred and no particulate phase metals were derived.

TABLE D-4. AEC - RUN NO. 1-2 GB TEST (30 MARCH 1998)

Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

	Run 1 Train A -Detection	Run 1 Train Run 1 Train Run 2 Train Run 2 Train A - Detection B - Detection	Run 2 Train A -Detection	Run 2 Train R-Detection	Average Maximum Detection Limit - Concentration.	Average Minimum Detection Limit - Concentration.
Analyte	Limit, mg/kg	Limit, mg/kg Limit, mg/kg Limit, mg/kg Limit, mg/kg	Limit, mg/kg	Limit, mg/kg	mg/m³	mg/m³
Aluminum	25.6	21.5	24	25.3	3.485E-03	2.927E-03
Antimony	3.67	3.08	3.45	3.63	4.996E-04	4.193E-04
Arsenic	2.52	2.12	2.37	2.49	3.430E-04	2.886E-04
Barium	0.28	0.235	0.263	0.277	3.812E-05	3.199E-05
Beryllium	0.156	0.131	0.146	0.154	2.124E-05	1.783E-05
Cadmium	0.311	0.261	0.293	0.308	4.234E-05	3.553E-05
Chromium	0.55	0.462	0.517	0.544	7.487E-05	6.289E-05
Cobalt	0.55	0.462	0.517	0.544	7.487E-05	6.289E-05
Copper	1.35	1.13	1.27	1.33	1.838E-04	1.538E-04
Lead	2.07	1.74	1.95	2.05	2.818E-04	2.369E-04
Magnesium	5.37	4.51	5.05	5.32	7.310E-04	6.139E-04
Manganese	0.239	0.2	0.224	0.236	3.253E-05	2.723E-05
Nickel	0.84	0.706	0.79	0.832	1.143E-04	9.611E-05
Phosphorus	5.9	4.96	5.55	5.84	8.032E-04	6.752E-04
Selenium	2	1.68	1.88	1.98	2.723E-04	2.287E-04
Silver	0.373	0.314	0.351	0.37	5.078E-05	4.274E-05
Thallium	4.73	3.97	4.45	4.68	6.439E-04	5.404E-04
Zinc	4.49	3.77	4.22	4.45	6.112E-04	5.132E-04
Mercury	0.00548	0.00559	0.00792	0.00731	1.078E-06	7.460E-07

GREEN STAR CLUSTER

TABLE D-1. AEC - RUN NO. 1 GS TEST (31 MARCH 1998)Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29
Compounds below the DLs are listed as nondetected (ND)
Analyzed by: Radian International LLC

Analyte	Run 1 Train A - Amount Detected, mg/kg (a)	Run 1 Train A -Detection Limit, mg/kg	Run 1 Train A - Concentration, mg/m³	Run 1 Train B - Amount Detected, mg/kg (a)	Run 1 Train B -Detection Limit, mg/kg	Run 1 Train B - Concentration, mg/m³	Average Concentration - Run 1, mg/m³
Aluminum	329	22.9	1.118E-02	329	25.4	9.030E-03	1.011E-02
Antimony	15.8	3.29	5.371E-04	18.7	3.65	5.133E-04	5.252E-04
Arsenic	0.251	2.26	ND	1.98	2.5	ND	QN
Barium	14800	0.251	5.031E-01	18900	0.278	5.187E-01	5.109E-01
Beryllium	0.251	0.139	8.532E-06	0.196	0.154	5.380E-06	6.956E-06
Cadmium	1.06	0.279	3.603E-05	1.18	0.309	3.239E-05	3.421E-05
Chromium	84	0.492	2.855E-03	9.88	0.546	2.432E-03	2.643E-03
Cobalt	8.99	0.492	3.056E-04	11.7	0.546	3.211E-04	3.134E-04
Copper	123	1.21	4.181E-03	134	1.34	3.678E-03	3.929E-03
Lead	25.2	1.86	8.566E-04	26.8	2.06	7.356E-04	7.961E-04
Magnesium	99500	4.81	3.382E+00	104000	5.33	2.854E+00	3.118E+00
Manganese	208	0.214	7.070E-03	223	0.237	6.121E-03	6.595E-03
Nickel	5.81	0.752	1.975E-04	2.3	0.834	2.004E-04	1.989E-04
Phosphorus	80.4	5.28	2.733E-03	98	5.86	2.360E-03	2.547E-03
Selenium	ND	1.79	ND	ΠN	1.99	QN	QN
Silver	ND	0.334	ND	ΩN	0.371	QN	QN
Thallium	ND	4.23	ND	QN	4.7	QN	QN
Zinc	218	4.02	7.410E-03	231	4.46	6.340E-03	6.875E-03
Mercury	0.0946	0.0102	3.216E-06	0.125	0.0356	3.431E-06	3.323E-06

a Metals data for results with no dilution (i.e., dilution factor equal to 1) were used to calculate emission factors.

TABLE D-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected

via TSP filter and filter digested according to 40 CFR 60 Method 29

Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

	Background - Amount Background - Detected, mg/kg Detection Limit.	Background - Detection Limit.	Background - Concentration,	Reagent Blank - Amount	Reagent Blank - Detection Limit,	Field Blank - Amount	Field Blank - Detection Limit,
Analyte	(a)	mg/kg	mg/m³	Detected, mg/kg	mg/kg	Detected, mg/kg	mg/kg
Aluminum	QN	38.9	ON	QN	38.9	QN	38.9
Antimony	QN	2.74	QN	QN	2.74	ND	2.74
Arsenic	QN	1.83	QN	QN	1.83	ND	1.83
Barium	QN	0.175	QN	QN	0.175	ND	0.175
Beryllium	QN	0.866	ND	QN	0.866	ND	0.866
Cadmium	ΔN	0.229	ND	QN	0.229	ND	0.229
Chromium	QN	0.457	ND	ND	0.457	ND	0.457
Cobalt	QN	0.441	QN	ON	0.441	ND	0.441
Copper	ND	1.99	ON	ND	1.99	ND	1.99
Lead	QN	1.81	ND	ON	1.81	ND	1.81
Magnesium	DN	3.48	QN	QN	3.48	QN	3.48
Manganese	ND	0.166	ON	QN	0.166	QN	0.166
Nickel	ND	0.948	QN	QN	0.948	ON	0.948
Phosphorus	ON	4.38	QN	QN	4.38	GN	4.38
Selenium	ND	1.66	QN	QN	1.66	QN	1.66
Silver	ND	0.675	QN	QN	0.675	QN	0.675
Thallium	ND	2.61	QN	QN	2.61	QN	2.61
Zinc	ND	2.43	QN	QN	2.43	QN	2.43
Mercury	ND	0.0171	ON	QN	0.0171	QN	0.0171

Insignificant particulate loading occurred and no particulate phase metals were derived.

TABLE D-3. AEC - RUN NO. 1 GS TEST (31 MARCH 1998)

Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29 Compounds below the DLs are listed as nondetected (ND)

Analyzed by: Radian International LLC

Analyte	A -Detection	Run 1 Train B -Detection Limit, mg/kg	Detection Limit - Concentration,	Average Minimum Detection Limit - Concentration, mg/m ³
Aluminum	22.9	25.4	7.712E-04	6.953E-04
Antimony	3.29	3.65	1.108E-04	9.990E-05
Arsenic	2.26	2.5	7.591E-05	6.862E-05
Barium	0.251	0.278	8.441E-06	7.621E-06
Beryllium	0.139	0.154	4.676E-06	4.221E-06
Cadmium	0.279	0.309	9.382E-06	8.471E-06
Chromium	0.492	0.546	1.658E-05	1.494E-05
Cobalt	0.492	0.546	1.658E-05	1.494E-05
Copper	1.21	1.34	4.069E-05	3.674E-05
Lead	1.86	2.06	6.255E-05	5.648E-05
Magnesium	4.81	5.33	1.618E-04	1.460E-04
Manganese	0.214	0.237	7.196E-06	6.498E-06
Nickel	0.752	0.834	2.532E-05	2.283E-05
Phosphorus	5.28	5.86	1.779E-04	1.603E-04
Selenium	1.79	1.99	6.042E-05	5.435E-05
Silver	0.334	0.371	1.126E-05	1.014E-05
Thallium	4.23	4.7	1.427E-04	1.284E-04
Zinc	4.02	4.46	1.354E-04	1.221E-04
Mercury	0.0102	0.0356	1.081E-06	3.097E-07

GREEN PARACHUTE SIGNAL FLARE

TABLE D-1. AEC - RUN NO. 1 GP TEST (31 MARCH 1998)
Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29
Compounds below the DLs are listed as nondetected (ND)
Analyzed by: Radian International LLC

Analyte 3	Run 1 Train A - Amount Detected, mg/kg (a)	Run 1 Train A -Detection Limit, mg/kg	Run 1 Train A - Concentration, mg/m³	Run 1 Train B - Amount Detected, mg/kg (a)	Run 1 Train BDetection Limit, mg/kg	Run 1 Train B - Concentration, mg/m³	Average Concentration - Run 1, mg/m³
Aluminum	664	17.4	4.022E-02	734	22.9	3.632E-02	3.827E-02
Antimony	9.41	2.49	5.700E-04	8.05	3.29	3.983E-04	4.842E-04
Arsenic	1.13	1.71	DN	1.16	2.26	ND	Q
Barium	54400	0.19	3.295E+00	76300	0.251	3.775E+00	3.535E+00
Beryllium	0.106	0.106	6.421E-06	0.14	0.14	6.927E-06	6.674E-06
Cadmium	8.66	0.211	5.246E-04	8.6	0.279	4.255E-04	4.751E-04
Chromium	54	0.373	3.271E-03	54.5	0.493	2.697E-03	2.984E-03
Cobalt	22.8	0.373	1.381E-03	32.4	0.493	1.603E-03	1.492E-03
Copper	100	0.915	6.058E-03	106	1.21	5.245E-03	5.651E-03
Lead	1.9	1.41	1.151E-04	5.3	1.86	2.622E-04	1.887E-04
Magnesium	205000	3.65	1.242E+01	199000	4.82	9.846E+00	1.113E+01
Manganese	85.1	0.162	5.155E-03	84.1	0.214	4.161E-03	4.658E-03
Nickel	4.14	0.57	2.508E-04	3.54	0.753	1.752E-04	2.130E-04
Phosphorus	9.68	4.01	5.428E-03	84.7	5.29	4.191E-03	4.809E-03
Selenium	QN	1.36	QN	QN	1.8	ND	ΩN
Silver	QN	0.254	QN	ON	0.335	ND	ND
Thallium	ΩN	3.21	QN	QN	4.24	QN	ON
Zinc	27.4	3.05	1.660E-03	27.8	4.03	1.375E-03	1.518E-03
Mercury	0.122	0.00792	7.391E-06	0.0771	0.00814	3.815E-06	5.603E-06

a Metals data for results with no dilution (i.e., dilution factor equal to 1) were used to calculate emission factors.

TABLE D-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29

Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

	Background - Amount Background - Detected, mg/kg Detection Limit,	Background - Detection Limit,	Background - Concentration,	Reagent Blank -	Reagent Blank - Detection Limit,	Field Blank - Amount	Field Blank - Detection Limit,
Analyte	(a)	mg/kg	mg/m³	Detected, mg/kg	mg/kg	Detected, mg/kg	mg/kg
Aluminum	QN	38.9	ND	DN	38.9	QN	38.9
Antimony	QN	2.74	ND	QN	2.74	QN	2.74
Arsenic	QN	1.83	ND	QN	1.83	Q	1.83
Barium	Q	0.175	ND	ND	0.175	QN	0.175
Beryllium	Q	0.866	ND	ND	0.866	Q	0.866
Cadmium	ND	0.229	ND	QN	0.229	Q	0.229
Chromium	Q	0.457	ND	ND	0.457	QN	0.457
Cobalt	Q.	0.441	ND	ND	0.441	QN	0.441
Copper	Q.	1.99	ND	ND	1.99	QV	1.99
Lead	ON	1.81	ND	QN	1.81	QN.	1.81
Magnesium	Q.	3.48	ND	QN	3.48	QN	3.48
Manganese	Q	0.166	ND	QN	0.166	Q	0.166
Nickel	QN	0.948	ND	ND	0.948	QN	0.948
Phosphorus	Q.	4.38	ND	ND	4.38	Q	4.38
Selenium	Q	1.66	ND	ND	1.66	QN	1.66
Silver	QN	0.675	ND	QN	0.675	2	0.675
Thallium	Q	2.61	ON	QN	2.61	Q.	2.61
Zinc	Q	2.43	ND	QN	2.43	2	2.43
Mercury	ND	0.0171	QN	QN	0.0171	QN	0.0171

Insignificant particulate loading occurred and no particulate phase metals were derived.

TABLE D-3. AEC - RUN NO. 1 GP TEST (31 MARCH 1998)
Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29 Compounds below the DLs are listed as nondetected (ND)

Analyzed by: Radian International LLC

Analyte	Run 1 Train A -Detection Limit, mg/kg	Run 1 Train B -Detection Limit, mg/kg	Concentration.	Average Minimum Detection Limit - Concentration, mg/m³
Aluminum	17.4	22.9	1.247E-03	9.475E-04
Antimony	2.49	3.29	1.792E-04	1.356E-04
Arsenic	1.71	2.26	1.231E-04	9.312E-05
Barium	0.19	0.251	1.367E-05	1.035E-05
Beryllium	0.106	0.14	7.623E-06	5.772E-06
Cadmium	0.211	0.279	1.519E-05	1.149E-05
Chromium	0.373	0.493	2.685E-05	2.031E-05
Cobalt	0.373	0.493	2.685E-05	
Copper	0.915	1.21	6.589E-05	2.031E-05
Lead	1.41	1.86	1.013E-04	4.982E-05
Magnesium	3.65	4.82	2.625E-04	7.678E-05
Manganese	0.162	0.214	1.165E-05	1.988E-04
Nickel	0.57	0.753	4.100E-05	8.821E-06
Phosphorus	4.01	5.29	2.881E-04	3.104E-05
Selenium	1.36	1.8	9.802E-05	2.184E-04
Silver	0.254	0.335	1.824E-05	7.406E-05
Thallium	3.21	4.24		1.383E-05
Zinc	3.05	4.03	2.309E-04	1.748E-04
Mercury	0.00792	0.00814	2.194E-04 4.433E-07	1.661E-04 4.313E-07

WHITE PARACHUTE SIGNAL FLARE



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TABLE D-1. AEC - RUN NO. 1 WP TEST (1 APRIL 1998)

Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

Anno Dete Analyte mg/k	Run 1 Train A - Amount Detected, mg/kg (a)	Run 1 Train A -Detection Limit, mg/kg	Run 1 Train A - Concentration, mg/m³	Run 1 Train B - Amount Detected, mg/kg (a)	Run 1 Train B -Detection Limit, mg/kg	Run 1 Train B - Concentration, mg/m³	Average Concentration - Run 1, mg/m³
Aluminum 19	193	26.1	1.821E-02	39.3	22.6	3.073E-03	1.064E-02
	7.82	3.75	7.380E-04	99.6	3.25	7.554E-04	7.467E-04
Arsenic	QN	2.57	QN	1.5	2.23	QN	ND
	581	0.286	5.483E-02	380	0.248	2.971E-02	4.227E-02
E	0.201	0.159	1.897E-05	0.119	0.138	QN	1.897E-05
	0.646	0.317	6.096E-05	0.744	0.276	5.818E-05	5.957E-05
Chromium 52	52.3	0.561	4.936E-03	28.2	0.487	2.205E-03	3.570E-03
	1.44	0.561	1.359E-04	1.41	0.487	1.103E-04	1.231E-04
Copper 40	40.8	1.38	3.850E-03	43.6	1.19	3.409E-03	3.630E-03
Lead 29	29.9	2.12	2.822E-03	30.6	1.84	2.393E-03	2.607E-03
Magnesium 189	189000	5.48	1.784E+01	64400	4.76	5.036E+00	1.144E+01
Manganese 17	178	0.243	1.680E-02	168	0.211	1.314E-02	1.497E-02
	5.34	0.857	5.039E-04	4.81	0.744	3.761E-04	4.400E-04
Phosphorus 6	09	6.02	5.662E-03	29.5	5.23	4.653E-03	5.157E-03
Selenium 0.3	0.307	2.04	ND	0.441	1.77	ND	ND
Silver	QN	0.381	QN	QΝ	0.331	DN	ND
Thallium 0.6	969.0	4.83	QN	QΝ	4.19	ND	ND
Zinc 26	26.3	4.58	2.482E-03	28.2	3.98	2.205E-03	2.344E-03
Mercury 0.3	0.314	0.00528	2.963E-05	0.128	0.00528	1.001E-05	1.982E-05

a Metals data for results with no dilution (i.e., dilution factor equal to 1) were used to calculate emission factors.

TABLE D-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

	Background -	Background -	Background -	Reagent Blank -	Reagent Blank - Reagent Blank -	Field Blank -	Field Blank -
Analyte	Detected, Iliging Detection (a) m.	Detection Limit, mg/kg	mg/m³	Detected, mg/kg	Detection Limit, mg/kg	Amount Detected, mg/kg	Detection Limit, mg/kg
Aluminum	ND	38.9	ND	QN	38.9	QN	38.9
Antimony	ND	2.74	ND	QN	2.74	QN	2.74
Arsenic	QN	1.83	ND	QN	1.83	QV	1.83
Barium	ND	0.175	ND	QN	0.175	QV	0.175
Beryllium	ND	0.866	QN	QN	0.866	QN	0.866
Cadmium	ND	0.229	ND	QN	0.229	2	0.229
Chromium	ND	0.457	ND	QN	0.457	Q	0.457
Cobalt	ΩN	0.441	ND	QN	0.441	QN	0.441
Copper	QN	1.99	ND	QN	1.99	QN	1.99
Lead	Q	1.81	ND	QN	1.81	Q	1.81
Magnesium	ND	3.48	ND	QN	3.48	QN	3.48
Manganese	S	0.166	ND	QN	0.166	QN	0.166
Nickel	Q	0.948	ND	QN	0.948	ND	0.948
Phosphorus	QN	4.38	ND	QN	4.38	QV	4.38
Selenium	QN	1.66	ND	QN	1.66	QN	1.66
Silver	Q	0.675	ND	ΠN	0.675	Q	0.675
Thallium	QN	2.61	DN	QN	2.61	Q	2.61
Zinc	Q	2.43	QN	QN	2.43	QV	2.43
Mercury	ND	0.0171	ND	QN	0.0171	QN	0.0171

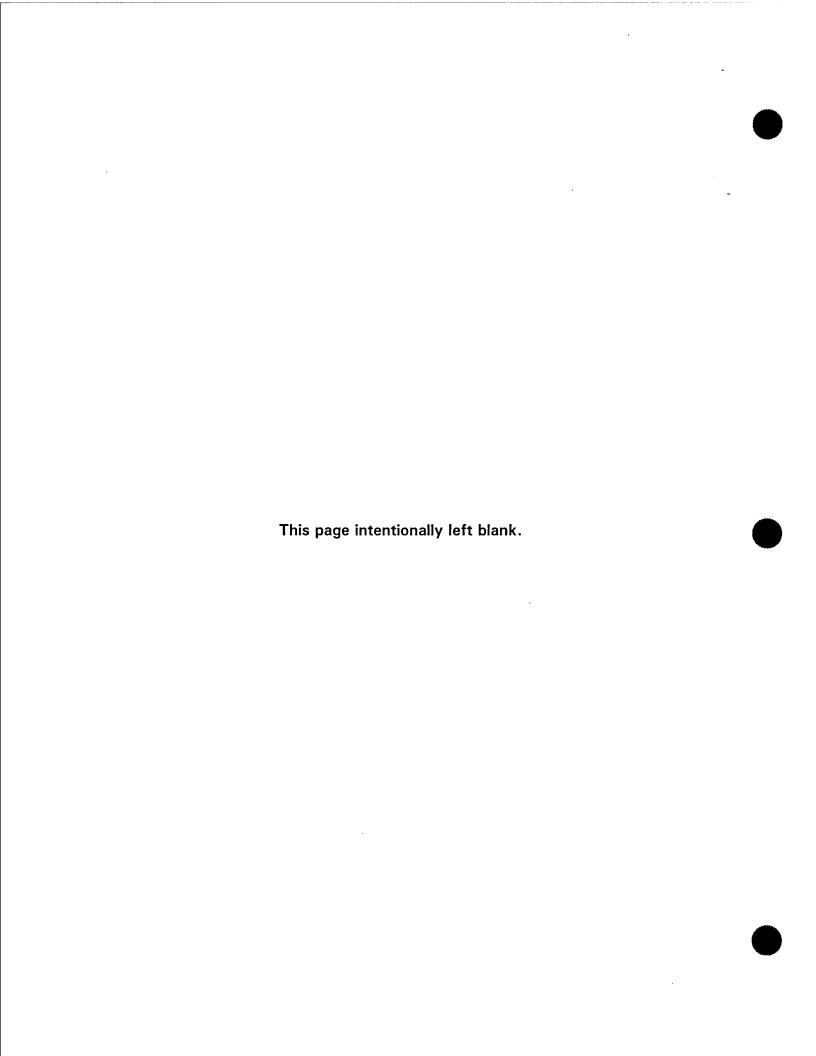
Insignificant particulate loading occurred and no particulate phase metals were derived.

TABLE D-3. AEC - RUN NO. 1 WP TEST (1 APRIL 1998)

Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29 Compounds below the DLs are listed as nondetected (ND)

Analyzed by: Radian International LLC

Selection of the select	1. 1 St. Navae 139606 (don 4944)	Run 1 Train B -Detection Limit, mg/kg	Detection Limit - Concentration,	Average Minimum Detection Limit - Concentration, mg/m ³
Aluminum	26.1	22.6	2.231E-03	1.932E-03
Antimony	3.75	· 3.25	3.206E-04	2.779E-04
Arsenic	2.57	2.23	2.197E-04	1.907E-04
Barium	0.286	0.248	2.445E-05	2.120E-05
Beryllium	0.159	0.138	1.359E-05	1.180E-05
Cadmium	0.317	0.276	2.710E-05	2.360E-05
Chromium	0.561	0.487	4.796E-05	4.164E-05
Cobalt	0.561	0.487	4.796E-05	4.164E-05
Copper	1.38	1.19	1.180E-04	1.017E-04
Lead	2.12	1.84	1.813E-04	1.573E-04
Magnesium	5.48	4.76	4.685E-04	4.070E-04
Manganese	0.243	0.211	2.078E-05	1.804E-05
Nickel	0.857	0.744	7.327E-05	6.361E-05
Phosphorus	6.02	5.23	5.147E-04	4.471E-04
Selenium	2.04	1.77	1.744E-04	1.513E-04
Silver	0.381	0.331	3.257E-05	2.830E-05
Thallium	4.83	4.19	4.129E-04	3.582E-04
Zinc	4.58	3.98	3.916E-04	3.403E-04
Mercury	0.00528	0.00528	4.514E-07	4.514E-07



155 MM ILLUMINATION ROUND

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TABLE D-1. AEC - RUN NO. 1 IR TEST (1 APRIL 1998)

Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

Analyte	Run 1 Train A - Amount Detected, mg/kg (a)	Run 1 Train A -Detection Limit, mg/kg	Run 1 Train A - Concentration, mg/m³	Run 1 Train B - Amount Detected, mg/kg (a)	Run 1 Train B -Detection Limit, mg/kg	Run 1 Train B - Concentration, mg/m³	Average Concentration - Run 1, mg/m³
Aluminum	186	20.4	1.728E-01	157	23	2.192E-01	1.960E-01
Antimony	8.82	2.93	8.195E-03	10.6	3.31	1.480E-02	1.150E-02
Arsenic	0.604	2.01	ND	1.02	2.27	ND	QN
Barium	174	0.223	1.617E-01	188	0.252	2.625E-01	2.121E-01
Beryllium	0.149	0.124	1.384E-04	0.112	0.14	ON	1.384E-04
Cadmium	34.6	0.248	3.215E-02	34.8	0.28	4.858E-02	4.037E-02
Chromium	2.87	0.438	2.667E-03	3.5	0.495	4.886E-03	3.776E-03
Cobalt	1.13	0.438	1.050E-03	0.72	0.495	1.005E-03	1.028E-03
Copper	35.7	1.08	3.317E-02	35.4	1.21	4.942E-02	4.130E-02
Lead	27.6	1.65	2.564E-02	27.3	1.87	3.811E-02	3.188E-02
Magnesium	62500	4.28	5.807E+01	71300	4.84	9.954E+01	7.880E+01
Manganese	24.3	0.19	2.258E-02	26.2	0.215	3.658E-02	2.958E-02
Nickel	4.47	0.67	4.153E-03	4.25	0.757	5.933E-03	5.043E-03
Phosphorus	25.9	4.71	2.406E-02	29.1	5.32	4.063E-02	3.234E-02
Selenium	0.62	1.6	ND	QN	1.8	ND	QN
Silver	QN	0.298	ON	QΝ	0.336	ND	QN
Thallium	1.94	3.77	ND	ND	4.26	ND	ON
Zinc	538	3.58	4.999E-01	544	4.05	7.595E-01	6.297E-01
Mercury	0.00426	90900:0	QN	0.007	0.0057	9.773E-06	9.773E-06

Metals data for results with no dilution (i.e., dilution factor equal to 1) were used to calculate emission factors.

TABLE D-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29

Compounds below the DLs are listed as nondetected (ND)

Analyzed by: Radian International LLC

	Background -		Background -	Jack G to so o G	7000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	מיים קיים
	Detected, mg/kg Detect	Detection Limit,	Concentration,	Amount	Detection Limit,	Amount	Detection Limit,
Analyte	(a)	mg/kg	mg/m³	Detected, mg/kg	mg/kg	Detected, mg/kg	mg/kg
Aluminum	DN	38.9	ND	ND	38.9	ON	38.9
Antimony	QN	2.74	ON	QN	2.74	QN	2.74
Arsenic	DN	1.83	ND	ND	1.83	QN	1.83
Barium	QN	0.175	QN	QN	0.175	QN	0.175
Beryllium	QN	0.866	ON	QN	0.866	QN	0.866
Cadmium	QN	0.229	ND	QN	0.229	QN	0.229
Chromium	QN	0.457	ND	QN	0.457	QN	0.457
Cobalt	ND	0.441	ND	QN	0.441	QN	0.441
Copper	QN	1.99	ND	QN	1.99	ND	1.99
Lead	ON	1.81	ON	QN	1.81	QN	1.81
Magnesium	DN	3.48	ND	QN	3.48	QN	3.48
Manganese	ND	0.166	ON	QN	0.166	QN	0.166
Nickel	QN	0.948	ND	QN	0.948	QN	0.948
Phosphorus	ON	4.38	ON	QN	4.38	QN	4.38
Selenium	DN	1.66	ND	QN	1.66	QN	1.66
Silver	ND	0.675	QN	QN	0.675	QN	0.675
Thallium	DN	2.61	ND	QN	2.61	QN	2.61
Zinc	DN	2.43	ND	QN	2.43	QN	2.43
Mercury	ND	0.0171	QN	ND	0.0171	DN	0.0171

Insignificant particulate loading occurred and no particulate phase metals were derived.

TABLE D-3. AEC - RUN NO. 1 IR TEST (1 APRIL 1998)

Particulate-phase Metals Analysis of the TSP Samples - Method 6010A/7470; samples collected via TSP filter and filter digested according to 40 CFR 60 Method 29 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

Analyte	A -Detection	Run 1 Train B -Detection Limit, mg/kg	Detection Limit - Concentration,	Average Minimum Detection Limit - Concentration, mg/m³
Aluminum	20.4	23	2.741E-02	2.431E-02
Antimony	2.93	3.31	3.945E-03	3.492E-03
Arsenic	2.01	2.27	2.705E-03	2.395E-03
Barium	0.223	0.252	3.003E-04	2.657E-04
Beryllium	0.124	0.14	1.668E-04	1.478E-04
Cadmium	0.248	0.28	3.337E-04	2.955E-04
Chromium	0.438	0.495	5.899E-04	5.220E-04
Cobalt	0.438	0.495	5.899E-04	5.220E-04
Copper	1.08	1.21	1.442E-03	1.287E-03
Lead	1.65	1.87	2.228E-03	1.966E-03
Magnesium	4.28	4.84	5.768E-03	5.100E-03
Manganese	0.19	0.215	2.562E-04	2.264E-04
Nickel	0.67	0.757	9.021E-04	7.984E-04
Phosphorus	4.71	5.32	6.340E-03	5.613E-03
Selenium	1.6	1.8	2.145E-03	1.907E-03
Silver	0.298	0.336	4.004E-04	3.551E-04
Thallium	3.77	4.26	5.077E-03	4.493E-03
Zinc	3.58	4.05	4.826E-03	4.266E-03
Mercury	0.00606	0.0057	7.222E-06	6.793E-06

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APPENDIX II-E. VOC AND TRACER DATA RESULTS

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SIMULATOR BOOBY TRAP FLASH M117

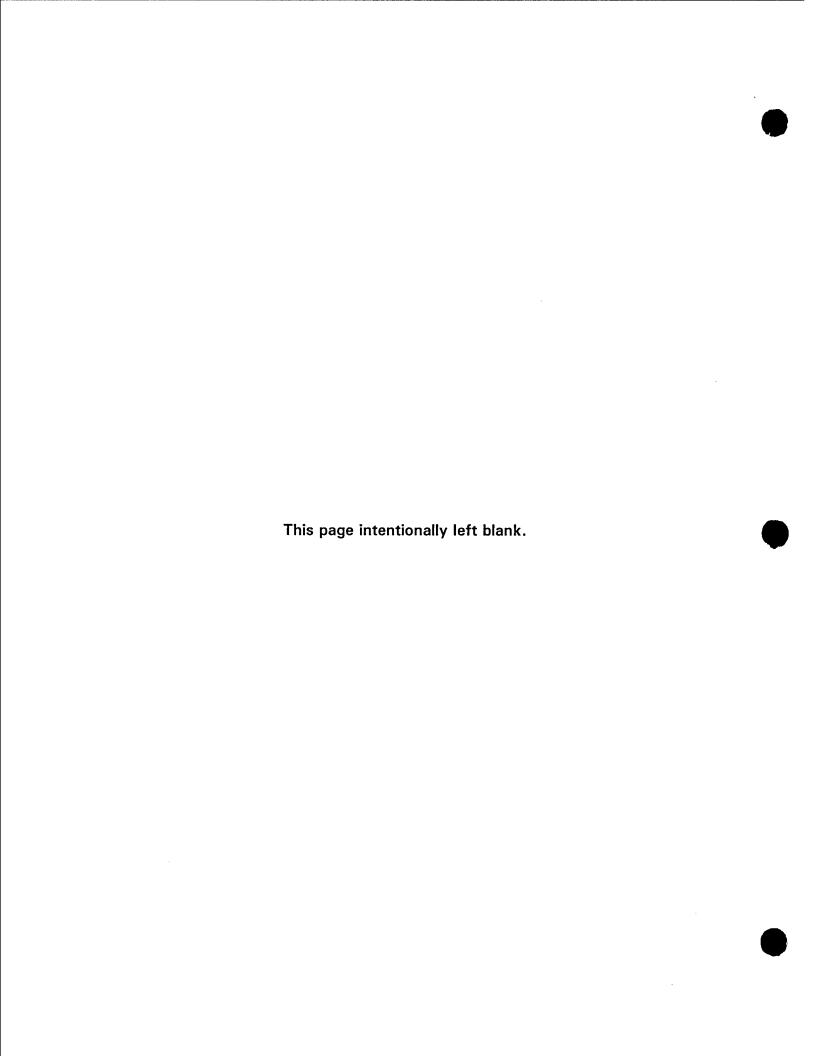


TABLE E-1. AEC - RUN NO. 1 BT TEST (28 MARCH 1998)
VOCs and TNMHC Analysis of the Air Sample - Method TO-14 and Method TO-12 Compounds below the DLs are listed as nondetected (ND); compounds in bold are duplicate values Analyzed by: Oregon Graduate Institute

Analyte	Run 1 Sample 1 - Amount Detected, ug/m³	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ug/m³	Run 1 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 1, mg/m³
TNMHC	100.10	1.001E-01	81.30	8.130E-02	9.070E-02
Ethane	3.30	3.300E-03	3.30	3.300E-02	3.300E-03
Ethylene	8.20	8.200E-03	8.30	8.300E-03	8.250E-03
Acetylene	12.50	1.250E-02	12.60	1.260E-02	1.255E-02
Propane	1.30	1.300E-03	1.30	1.300E-03	1.300E-03
Propene	2.20	2.200E-03	2.00	2.000E-03	2.100E-03
i-Butane	0.30	3.000E-04	0.20	2.000E-03	2.500E-04
i-Butene	0.20	2.000E-04	0.20	2.000E-04	2.000E-04
1-Butene	0.40	4.000E-04	0.20	5.000E-04	4.500E-04
1,3-Butadiene	0.90	9.000E-04	0.90	9.000E-04	9.000E-04
n-Butane	0.40	4.000E-04	0.40	4.000E-04	4.000E-04
trans-2-Butene	1.30	1.300E-03	1.10	1.100E-03	1.200E-03
2,2-Dimethylpropane	ND	ND	ND	ND	ND
cis-2-Butene	0.10	1.000E-04	0.10	1.000E-04	1.000E-04
3-Methyl-1-butene	ND	ND	ND ND	ND	ND
i-Pentane	0.90	9.000E-04	0.90	9.000E-04	9.000E-04
1-Pentene	ND ND	ND	ND	ND	ND
2-Methyl-1-butene	ND	ND	ND	ND	ND
n-Pentane	0.80	8.000E-04	0.80	8.000E-04	8.000E-04
Isoprene	ND	ND	ND	ND	ND
trans-2-Pentene	ND	ND	ND	ND	ND
cis-2-Pentene	ND	ND	ND	ND	ND
2-Methyl-2-butene	ND	ND	ND	ND	ND
2,2-Dimethylbutane	0.10	1.000E-04	0.10	1.000E-04	1.000E-04
Cyclopentene	ND	ND	ND	ND	ND
4-Methyl-1-pentene	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND
2,3-Dimethylbutane	0.70	7.000E-04	0.50	5.000E-04	6.000E-04
cis-4-Methyl-2-pentene	ND	ND	ND ·	ND	ND
2-Methylpentane	1.20	1.200E-03	1.10	1.100E-03	1.150E-03
3-Methylpentane	0.90	9.000E-04	0.80	8.000E-04	8.500E-04
2-Methyl-1-pentene	ND	ND	ND	ND	ND
1-Hexene	ND	ND	ND	ND	ND
n-Hexane	1.20	1.200E-03	1.20	1.200E-03	1.200E-03
trans-2-Hexene	ND	ND	ND	ND	ND
2-Methyl-2-pentene	ND	ND	ND	ND	ND
cis-2-Hexene	ND	ND	ND	ND	ND
Methylcyclopentane	0.50	5.000E-04	0.50	5.000E-04	5.000E-04
2,4-Dimethylpentane	1.20	1.200E-03	1.30	1.300E-03	1.250E-03
Benzene	4.70	4.700E-03	4.80	4.800E-03	4.750E-03
		-		=	-

TABLE E-1. AEC - RUN NO. 1 BT TEST (28 MARCH 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ug/m³	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ug/m³	Run 1 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 1, mg/m ³
Cyclohexane	0.30	3.000E-04	0.30	3.000E-04	3.000E-04
2-Methylhexane	0.40	4.000E-04	0.40	4.000E-04	4.000E-04
2,3-Dimethylpentane	2.30	2.300E-03	2.30	2.300E-03	2.300E-03
3-Methylhexane	0.50	5.000E-04	0.60	6.000E-04	5.500E-04
2,2,4-Trimethylpentane	4.40	4.400E-03	4.50	4.500E-03	4.450E-03
n-Heptane	0.40	4.000E-04	0.40	4.000E-04	4.000E-04
2,4,4-Trimethyl-1-pentene	ND	ND	ND	ND	ND
Methylcyclohexane	0.20	2.000E-04	0.20	2.000E-04	2.000E-04
2,4,4-Trimethyl-2-pentene	ND	ND	ND	ND	ND
2,5-Dimethylhexane	0.30	3.000E-04	0.30	3.000E-04	3.000E-04
2,4-Dimethylhexane	0.50	5.000E-04	0.40	4.000E-04	4.500E-04
2,3,4-Trimethylpentane	0.90	9.000E-04	0.90	9.000E-04	9.000E-04
Toluene	3.00	3.000E-03	3.00	3.000E-03	3.000E-03
2,3-Dimethylhexane	0.40	4.000E-04	0.40	4.000E-04	4.000E-04
2-Methylheptane	0.30	3.000E-04	0.20	2.000E-04	2.500E-04
3-Ethylhexane	ND	ND	ND	ND	ND
2,2-Dimethylheptane	ND	ND	ND	ND	ND
2,2,4-Trimethylhexane	0.30	3.000E-04	0.30	3.000E-04	3.000E-04
n-Octane	0.20	2.000E-04	0.10	1.000E-04	1.500E-04
Ethylcyclohexane	ND	ND	ND	ND	ND
Ethylbenzene	0.40	4.000E-04	0.40	4.000E-04	4.000E-04
m-Xylene & p-Xylene	0.70	7.000E-04	1.10	1.100E-03	9.000E-04
Styrene	0.80	8.000E-04	0.60	6.000E-04	7.000E-04
o-Xylene	0.40	4.000E-04	0.40	4.000E-04	4.000E-04
n-Nonane	0.60	6.000E-04	0.40	4.000E-04	5.000E-04
i-Propylbenzene	ND	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND	ND
p-Ethyltoluene	ND	ND	ND	ND	ND
m-Ethyltoluene	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND
o-Ethyltoluene	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene & sec- Butylbenzene	0.40	4.000E-04	0.20	2.000E-04	3.000E-04
n-Decane	ND	ND	ND	ND	ND
alpha-Pinene	ND	ND	ND	ND	ND
beta-Pinene	ND	ND	ND	ND	ND
delta 3-Carene	ND	ND	ND	ND	ND
d-Limonene	ND	ND	ND	ND	ND
MTBE	1.10	1.100E-03	1.10	1.100E-03	1.100E-03
ETBE	ND	ND	ND	ND	ND

TABLE E-2. AEC - RUN NO. 1 BT TEST (28 MARCH 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ppby	Run 1 Sample 1 - Amount Detected, mg/m³	Run 1 Sample 2 - Amount Detected, ppbv	Run 1 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 1, ppbv
Dichlorodifluoromethane	0.254		0.355		3.045E-01
Methylchloride	ND	-	ND	-	3.045E-01 ND
Dichlorotetrafluoroethane	ND ND	-	ND ND	-	ND ND
Chloroethene	0.057	-	0.056	-	5.692E-02
1.3-Butadiene	0.408		0.408		4.075E-01
Methylbromide	ND	_	ND	-	4.0/5E-01 ND
Ethylchloride	ND	<u>-</u>	ND ND	<u> </u>	ND ND
Trichloromonofluoromethane	0.428	_	0.443	-	4.355E-01
Vinylidenechloride	ND		ND	-	4.355E-01 ND
Methylenechloride	1.623	_	1.674	-	1.649E+00
Allylchloride	ND	- -	ND	 	1.649E+00 ND
1,1,2-Trichloro-1,2,2-	110	-	NO	-	טא
trifluoroethane	0.108	_	0.112	_	1.101E-01
1,1-Dichloroethane	ND ND		ND	<u> </u>	ND
1,2-Dichloroethene	ND	_	ND	<u> </u>	ND ND
Chloroform	ND	_	ND		ND
1,2-Dichloroethane	ND	-	ND ND		ND ND
Methylchloroform	0.068	-	0.068		6.814E-02
Benzene	1.473	-	1.505	_	1.489E+00
Carbontetrachloride	0.116	-	0.125	-	1.205E-01
1,2-Dichloropropane	ND	-	ND	_	ND ND
Trichloroethylene	ND	•	ND	_	ND
cis 1,3-Dichloro-1-propene	ND	-	ND		ND
trans 1,3-Dichloro-1-propene	ND	-	ND	_	ND
1,1,2-Trichloroethane	ND	-	ND	-	ND
Toluene	0.797	-	0.797	-	7.973E-01
1,2-Dibromoethane	ND	•	ND	-	ND
Perchloroethylene	ND	-	ND	-	ND
Chlorobenzene	ND	-	ND	-	ND
Ethylbenzene	0.092	-	0.092	-	9.226E-02
m&p-Xylene	0.200	-	0.172	-	1.859E-01
Styrene	0.087	-	0.085	-	8.601E-02
1,1,2,2-Tetrachloroethane	ND	-	ND	-	ND
o-Xylene	0.092	-	0.092	-	9.226E-02
p-Ethyltoluene	ND	-	ND	-	ND
1,3,5-Trimethylbenzene	ND	-	ND	-	ND
1,2,4-Trimethylbenzene	0.079	-	0.051	-	6.520E-02
Benzylchloride	ND	-	ND	-	ND
m-Dichlorobenzene	ND	-	ND	-	ND
p-Dichlorobenzene	ND	-	ND	-	ND

TABLE E-2. AEC - RUN NO. 1 BT TEST (28 MARCH 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ppbv	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ppbv	Run 1 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 1, ppbv
o-Dichlorobenzene	ND	-	ND	-	ND
1,2,4-Trichlorobenzene	ND	-	ND	•	ND
Hexachlorobutadiene	ND	-	ND	•	ND
Phenylacetylene	0.059	-	0.055		5.712E-02
Indane	ND	-	ND	-	ND
2,3-Dihydro-1-methyl-1H-indene	ND	-	ND		ND
2,3-Dihydro-4-methyl-1H-indene	ND	-	ND	**	ND
Naphthalene	0.167	-	0.102	-	1.344E-01
2-Methylnaphthalene	ND	-	ND	•	ND
1-Methylnaphthalene	ND	-	ND	-	ND
Cyanogen	ND	-	ND	•	ND
Methylnitrite	0.240	-	0.247	-	2.434E-01
Acetonitrile	0.211	-	0.192	-	2.017E-01
Acrylonitrile	0.137	-	0.134	-	1.354E-01
Nitromethane	0.228	-	0.314	-	2.708E-01
Propanenitrile	ND	-	ND	_	ND
2-Methylpropanenitrile	ND	-	ND	-	ND
Pentanenitrile	ND	-	ND	-	ND
Hexanenitrile	ND	-	ND	-	ND
Benzonitrile	0.053	-	0.055	-	5.374E-02
2-Nitrophenol	ND	· -	ND	-	ND
Acrolein	0.753	-	0.856	-	8.046E-01
Acetone	2.650	-	3.059	-	2.855E+00
1-Hydroxy-2-propanone	ND	-	ND		ND
Furan	ND	-	0.063	-	6.290E-02
2-Propanol	ND	-	ND	-	ND ND
2-Methylpropanal	ND	-	ND	-	ND ND
1-Propanol	ND	-	ND ND	-	ND
Methacrolein	ND ND	-	ND ND		ND ND
Methyl-vinyl Ketone	ND 0,282	-	ND	-	ND
MTBE 2,3-Butanedione	L	-	0.283 ND	-	2.825E-01 ND
2,3-Butanedione Butanal	ND 0.116	-	0.146		1.311E-01
<u> </u>	0.116	-			5.234E-01
2-Butanone	0.550 ND	-	0.497 ND		5.234E-01 ND
2-Methyl-1,3-dioxolane 2-Methylfuran	ND ND	-	ND ND	_	ND ND
Tetrahydrofuran	ND	-	ND	-	ND ND
trans-2-Butenal	0.135	-	0.138		1.366E-01
Acetic Acid	1.155	-	1.114		1.134E+00
1-Butanol		-	1.114 ND	<u>-</u>	ND
1-Dulanoi	ND	-	טא	-	ן ואט

TABLE E-2. AEC - RUN NO. 1 BT TEST (28 MARCH 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ppbv	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ppbv	Run 1 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 1, ppbv
2-Pentanone	ND	-	0.084	•	8.356E-02
Pentanal	0.360	-	0.560	-	4.599E-01
1,4-Dioxane	ND	-	ND	-	ND
Methyl Methacrylate	ND	-	ND	-	ND
Cyclopentanone	ND	-	ND	-	ND
Hexanal	0.262	-	0.377	-	3.196E-01
2-Furaldehyde	0.310	-	0.344	-	3.273E-01
Cyclohexanone	0.056	*	0.054	-	5.483E-02
Heptanal	0.218	-	0.328	-	2.727E-01
2-Butoxyethanol	ND	-	ND	-	ND
Benzaldehyde	0.460	-	0.573	-	5.164E-01
6-Methyl-5-hepten-2-one	ND	-	ND	-	ND
Octanal	0.478	-	0.689	-	5.831E-01
Benzofuran	ND	-	ND	-	ND
2-Ethyl-1-hexanol	ND	-	ND	-	ND
Acetophonone	0.074	-	0.075	-	7.444E-02
Nonanal	0.704	-	0.957	-	8.304E-01
Decanal	0.497	-	0.923	-	7.098E-01
Carbonyl Sulfide	0.136	-	0.182	-	1.592E-01
Carbon Disulfide	10.820	-	11.069	-	1.094E+01
Thiophene	0.121	-	0.117		1.187E-01
Dimethyldisulfide	ND	-	ND	-	ND

TABLE E-3. AEC - BACKGROUND RUN NO. 1 BT TEST (28 MARCH 1998)

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m³	Average Background Concentration - Run 1, mg/m ³
TNMHC	_	46.00	4.600E-02	4.600E-02
Ethane	30	6.50	6.500E-03	6.500E-03
Ethylene	28	2.60	2.600E-03	2.600E-03
Acetylene	26	3.20	3.200E-03	3.200E-03
Propane	44	2.60	2.600E-03	2.600E-03
Propene	42	3.10	3.100E-03	3.100E-03
i-Butane	58	0.40	4.000E-04	4.000E-04
i-Butene	56	0.80	8.000E-04	8.000E-04
1-Butene	56	1.30	1.300E-03	1.300E-03
1,3-Butadiene	54	0.20	2.000E-04	2.000E-04
n-Butane	58	1.10	1.100E-03	1.100E-03
trans-2-Butene	56	0.20	2.000E-04	2.000E-04
2,2-Dimethylpropane	72	ND	ND	ND
cis-2-Butene	56	0.20	2.000E-04	2.000E-04
3-Methyl-1-butene	70	0.10	1.000E-04	1.000E-04
i-Pentane	72	0.50	5.000E-04	5.000E-04
1-Pentene	70	ND	ND	ND
2-Methyl-1-butene	70	0.30	3.000E-04	3.000E-04
n-Pentane	72	0.50	5.000E-04	5.000E-04
Isoprene	68	0.10	1.000E-04	1.000E-04
trans-2-Pentene	70	0.10	1.000E-04	1.000E-04
cis-2-Pentene	70	ND	ND	ND
2-Methyl-2-butene	70	ND	ND	ND
2,2-Dimethylbutane	86	0.40	4.000E-04	4.000E-04
Cyclopentene	68	ND	ND	ND
4-Methyl-1-pentene	84	ND	ND	ND
Cyclopentane	70	0.10	1.000E-04	1.000E-04
2,3-Dimethylbutane	86	0.10	1.000E-04	1.000E-04
cis-4-Methyl-2-pentene	84	ND	ND	ND
2-Methylpentane	86	0.30	3.000E-04	3.000E-04
3-Methylpentane	86	0.10	1.000E-04	1.000E-04
2-Methyl-1-pentene	84	ND	ND	ND
1-Hexene	84	ND	ND	ND
n-Hexane	86	0.20	2.000E-04	2.000E-04
trans-2-Hexene	84	ND	ND	ND
2-Methyl-2-pentene	84	ND	ND	ND
cis-2-Hexene	84	ND	ND	ND
Methylcyclopentane	84	0.20	2.000E-04	2.000E-04
2,4-Dimethylpentane	100	0.10	1.000E-04	1.000E-04

TABLE E-3. AEC - BACKGROUND RUN NO. 1 BT TEST (28 MARCH 1998)

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m ³	Average Background Concentration - Run 1, mg/m ³
Benzene	78	0.70	7.000E-04	7.000E-04
Cyclohexane	84	0.40	4.000E-04	4.000E-04
2-Methylhexane	100	0.10	1.000E-04	1.000E-04
2,3-Dimethylpentane	100	0.20	2.000E-04	2.000E-04
3-Methylhexane	100	0.40	4.000E-04	4.000E-04
2,2,4-Trimethylpentane	114	0.50	5.000E-04	5.000E-04
n-Heptane	100	0.20	2.000E-04	2.000E-04
2,4,4-Trimethyl-1-pentene	112	ND	ND	ND
Methylcyclohexane	98	0.10	1.000E-04	1.000E-04
2,4,4-Trimethyl-2-pentene	112	ND	ND	ND
2,5-Dimethylhexane	114	ND	ND	ND
2,4-Dimethylhexane	114	ND	ND	ND
2,3,4-Trimethylpentane	114	0.10	1.000E-04	1.000E-04
Toluene	92	0.80	8.000E-04	8.000E-04
2,3-Dimethylhexane	114	ND	ND	ND
2-Methylheptane	111	ND	ND	ND
3-Ethylhexane	114	ND	ND	ND
2,2-Dimethylheptane	128	ND	ND	ND
2,2,4-Trimethylhexane	128	ND	ND	ND
n-Octane	114	0.10	1.000E-04	1.000E-04
Ethylcyclohexane	112	ND	ND	ND
Ethylbenzene	160	0.20	2.000E-04	2.000E-04
m-Xylene & p-Xylene	106	0.40	4.000E-04	4.000E-04
Styrene	104	ND	ND	ND
o-Xylene	106	0.20	2.000E-04	2.000E-04
n-Nonane	128	ND	ND	ND
i-Propylbenzene	120	ND	ND	ND
n-Propylbenzene	120	ND	ND	ND
p-Ethyltoluene	120	ND	ND	ND
m-Ethyltoluene	120	ND	ND	ND
1,3,5-Trimethylbenzene	120	ND	ND	ND
o-Ethyltoluene	120	ND	ND	ND
1,2,4-Trimethylbenzene & sec-				
Butylbenzene	120	0.10	1.000E-04	1.000E-04
n-Decane	142	ND	ND	ND
alpha-Pinene	136	ND	ND	ND
beta-Pinene	136	ND	ND	ND
delta 3-Carene	136	ND	ND	ND
d-Limonene	136	ND	ND	ND

TABLE E-3. AEC - BACKGROUND RUN NO. 1 BT TEST (28 MARCH 1998)

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m³	Average Background Concentration - Run 1, mg/m ³
MTBE	88	0.40	4.000E-04	4.000E-04
ETBE	102.0	ND	ND	ND
Dichlorodifluoromethane	120.0	0.07	3.698E-04	3.698E-04
Methylchloride	50.0	ND	ND	ND
Dichlorotetrafluoroethane	171.0	ND	ND	ND
Chloroethene	63.0	ND	ND	ND
1,3-Butadiene	54.0	0.09	2.034E-04	2.034E-04
Methylbromide	95.0	ND	ND	ND
Ethylchloride	64.5	ND	ND	ND
Trichloromonofluoromethane	137.0	ND	ND	ND
Vinylidenechloride	97.0	ND	ND	ND
Methylenechloride	85.0	0.14	4.948E-04	4.948E-04
Allylchloride	76.5	ND	ND	ND
1,1,2-Trichloro-1,2,2-				
trifluoroethane	188.0	0.11	8.561E-04	8.561E-04
1,1-Dichloroethane	99.0	ND	ND	ND
1,2-Dichloroethene	97.0	ND	ND	ND
Chloroform	119.0	ND	ND	ND
1,2-Dichloroethane	99.0	ND	ND	ND
Methylchloroform	133.0	0.06	3.374E-04	3.374E-04
Benzene	78.0	0.22	7.120E-04	7.120E-04
Carbontetrachloride	154.0	0.10	6.288E-04	6.288E-04
1,2-Dichloropropane	113.0	ND	ND	ND
Trichloroethylene	133.0	ND	ND	ND
cis 1,3-Dichloro-1-propene	111.0	ND	ND	ND
trans 1,3-Dichloro-1-propene	111.0	ND	ND	ND
1,1,2-Trichloroethane	133.0	ND	ND	ND
Toluene	92.0	0.21	8.137E-04	8.137E-04
1,2-Dibromoethane	188.0	ND	ND	ND
Perchloroethylene	166.0	ND	ND	ND
Chlorobenzene	113.0	ND	ND	ND
Ethylbenzene	160.0	ND	ND	. ND
m&p-Xylene	106.0	0.08	3.658E-04	3.658E-04
Styrene	104.0	ND	ND	ND
1,1,2,2-Tetrachloroethane	168.0	ND	ND	ND
o-Xylene	106.0	ND	ND	ND
p-Ethyltoluene	120.0	ND	ND	ND
1,3,5-Trimethylbenzene	120.0	ND	ND	ND
1,2,4-Trimethylbenzene	120.0	ND	ND	ND

TABLE E-3. AEC - BACKGROUND RUN NO. 1 BT TEST (28 MARCH 1998)
VOCs and TNMHC Analysis of the Air Sample - Method TO-14 and Method TO-12 Compounds below the DLs are listed as nondetected (ND); compounds in bold are duplicate values Analyzed by: Oregon Graduate Institute

Analyte	Molecular Welght	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m³	Average Background Concentration - Run 1, mg/m ³
Benzylchloride	127.0	ND	ND	ND
m-Dichlorobenzene	147.0	ND	ND	ND
p-Dichlorobenzene	147.0	ND	ND	ND
o-Dichlorobenzene	147.0	ND	ND	ND
1,2,4-Trichlorobenzene	181.0	ND	ND	ND
Hexachlorobutadiene	261.0	ND	ND	ND
Phenylacetylene	102.0	ND	ND	ND
Indane	118.0	ND	ND	ND
2,3-Dihydro-1-methyl-1H-indene	132.0	ND	ND	ND
2,3-Dihydro-4-methyl-1H-indene	132.0	ND	ND	ND
Naphthalene	128.0	ND	ND	ND
2-Methylnaphthalene	142.0	ND	ND	ND
1-Methylnaphthalene	142.0	ND	ND	ND
Cyanogen	52	ND	ND	ND
Methylnitrite	61.0	ND	ND	ND
Acetonitrile	41.0	ND	ND	ND
Acrylonitrile	53.0	ND	ND	ND
Nitromethane	61.0	ND	ND	ND
Propanenitrile	55.0	ND	ND	ND
2-Methylpropanenitrile	69.0	ND	ND	ND
Pentanenitrile	83.0	ND	ND	ND
Hexanenitrile	97.0	ND	ND	ND
Benzonitrile	103.0	ND	ND	ND
2-Nitrophenol	139.0	ND	ND	ND
Acrolein	56.0	ND	ND	ND
Acetone	56.0	2.30	5.352E-03	5.352E-03
1-Hydroxy-2-propanone	74.0	ND	ND	ND
Furan	68.0	ND	ND	ND
2-Propanol	60.0	ND	ND	ND
2-Methylpropanal	74.0	ND	ND	ND
1-Propanol	60.0	ND	ND	ND
Methacrolein	70.0	ND	ND	ND
Methyl-vinyl Ketone	70.0	ND	ND	ND
MTBE	88.0	0.05	1.839E-04	1.839E-04
2,3-Butanedione	86.0	ND	ND	ND
Butanal	72.0	0.11	3.210E-04	3.210E-04
2-Butanone	72.0	0.29	8.692E-04	8.692E-04
2-Methyl-1,3-dioxolane	88.0	ND	ND	ND
2-Methylfuran	82.0	ND	ND	ND

TABLE E-3. AEC - BACKGROUND RUN NO. 1 BT TEST (28 MARCH 1998)

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m ³	Average Background Concentration - Run 1, mg/m ³
Tetrahydrofuran	72.0	ND	ND	ND
trans-2-Butenal	70.0	ND	ND	ND
Acetic Acid	60.0	0.33	8.137E-04	8.137E-04
1-Butanol	74.0	ND	ND	ND
2-Pentanone	86.0	0.07	2.374E-04	2.374E-04
Pentanal	86.0	0.37	1.306E-03	1.306E-03
1,4-Dioxane	88.0	ND	ND	ND
Methyl Methacrylate	100.0	ND	ND	ND
Cyclopentanone	84.0	ND	ND	ND
Hexanal	100.0	0.24	9.985E-04	9.985E-04
2-Furaldehyde	96.0	0.10	4.095E-04	4.095E-04
Cyclohexanone	98.0	ND	ND	ND
Heptanal	114.0	0.18	8.661E-04	8.661E-04
2-Butoxyethanol	118.0	ND	ND	ND
Benzaldehyde	106.0	0.26	1.153E-03	1.153E-03
6-Methyl-5-hepten-2-one	126.0	ND	ND	ND
Octanal	128.0	0.41	2.207E-03	2.207E-03
Benzofuran	118.0	ND	ND	ND
2-Ethyl-1-hexanol	120.0	ND	ND	ND
Acetophonone	120.0	ND	ND	ND
Nonanal	142.0	0.49	2.870E-03	2.870E-03
Decanal	156.0	0.49	3.192E-03	3.192E-03
Carbonyl Sulfide	60.0	0.10	2.525E-04	2.525E-04
Carbon Disulfide	76.0	0.36	1.143E-03	1.143E-03
Thiophene	84.0	ND	ND	ND
Dimethyldisulfide	94.0	ND	ND	ND

TABLE E-4. AEC - RUN NO. 1 BT TEST (28 MARCH 1998)

VOCs and TNMHC Analysis of the Air Sample - Method TO-14 and Method TO-12

Compounds below the DLs are listed as nondetected (ND); compounds in bold are duplicate values Analyzed by: Oregon Graduate Institute

TNMHC Ethane Ethylene Acetylene Propane Propene i-Butane	- 30 28 26 44 42 58	0.1 0.1 0.1 0.1 0.1	1.000E-04 1.000E-04 1.000E-04	1.000E-04 1.000E-04	1.000E-04
Ethylene Acetylene Propane Propene	28 26 44 42	0.1 0.1	1.000E-04		1 0005 04
Acetylene Propane Propene	26 44 42	0.1			1.000E-04
Propane Propene	44 42			1.000E-04	1.000E-04
Propane Propene	42	0.1	1.000E-04	1.000E-04	1.000E-04
Propene			1.000E-04	1.000E-04	1.000E-04
	58	0.1	1.000E-04	1.000E-04	1.000E-04
		0.1	1.000E-04	1.000E-04	1.000E-04
i-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
1-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
1,3-Butadiene	54	0.1	1.000E-04	1.000E-04	1.000E-04
n-Butane	58	0.1	1.000E-04	1.000E-04	1.000E-04
trans-2-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
2,2-Dimethylpropane	72	0.1	1.000E-04	1.000E-04	1.000E-04
cis-2-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
3-Methyl-1-butene	70	0.1	1.000E-04	1.000E-04	1.000E-04
i-Pentane	72	0.1	1.000E-04	1.000E-04	1.000E-04
1-Pentene	70	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-1-butene	70	0.1	1.000E-04	1.000E-04	1.000E-04
n-Pentane	72	0.1	1.000E-04	1.000E-04	1.000E-04
Isoprene	68	0.1	1.000E-04	1.000E-04	1.000E-04
trans-2-Pentene	70	0.1	1.000E-04	1.000E-04	1.000E-04
cis-2-Pentene	70	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-2-butene	70	0.1	1.000E-04	1.000E-04	1.000E-04
2,2-Dimethylbutane	86	0.1	1.000E-04	1.000E-04	1.000E-04
Cyclopentene	68	0.1	1.000E-04	1.000E-04	1.000E-04
4-Methyl-1-pentene	84	0.1	1.000E-04	1.000E-04	1.000E-04
Cyclopentane	70	0.1	1.000E-04	1.000E-04	1.000E-04
2,3-Dimethylbutane	86	0.1	1.000E-04	1.000E-04	1.000E-04
cis-4-Methyl-2-pentene	84	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methylpentane	86	0.1	1.000E-04	1.000E-04	1.000E-04
3-Methylpentane	86	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-1-pentene	84	0.1	1.000E-04	1.000E-04	1.000E-04
1-Hexene	84	0.1	1.000E-04	1.000E-04	1.000E-04
n-Hexane	86	0.1	1.000E-04	1.000E-04	1.000E-04
trans-2-Hexene	84	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-2-pentene	84	0.1	1.000E-04	1.000E-04	1.000E-04
cis-2-Hexene	84	0.1	1.000E-04	1.000E-04	1.000E-04
Methylcyclopentane	84	0.1	1.000E-04	1.000E-04	1.000E-04
2,4-Dimethylpentane	100	0.1	1.000E-04	1.000E-04	1.000E-04
Benzene	78	0.1	1.000E-04	1.000E-04	1.000E-04
Cyclohexane	84	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methylhexane	100	0.1	1.000E-04	1.000E-04	1.000E-04

TABLE E-4. AEC - RUN NO. 1 BT TEST (28 MARCH 1998)

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppbv	Detection Limit -Amount Detected, mg/m ³	Concentration, mg/m ³	Detection Limit - Concentration, mg/m ³
2,3-Dimethylpentane	100	0.1	1.000E-04	1.000E-04	1.000E-04
3-Methylhexane	100	0.1	1.000E-04	1.000E-04	1.000E-04
2,2,4-Trimethylpentane	114	0.1	1.000E-04	1.000E-04	1.000E-04
n-Heptane	100	0.1	1.000E-04	1.000E-04	1.000E-04
2,4,4-Trimethyl-1-pentene	112	0.1	1.000E-04	1.000E-04	1.000E-04
Methylcyclohexane	98	0.1	1.000E-04	1.000E-04	1.000E-04
2,4,4-Trimethyl-2-pentene	112	0.1	1.000E-04	1.000E-04	1.000E-04
2,5-Dimethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2,4-Dimethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2,3,4-Trimethylpentane	114	0.1	1.000E-04	1.000E-04	1.000E-04
Toluene	92	0.1	1.000E-04	1.000E-04	1.000E-04
2,3-Dimethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methylheptane	111	0.1	1.000E-04	1.000E-04	1.000E-04
3-Ethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2,2-Dimethylheptane	128	0.1	1.000E-04	1.000E-04	1.000E-04
2,2,4-Trimethylhexane	128	0.1	1.000E-04	1.000E-04	1.000E-04
n-Octane	114	0.1	1.000E-04	1.000E-04	1.000E-04
Ethylcyclohexane	112	0.1	1.000E-04	1.000E-04	1.000E-04
Ethylbenzene	160	0.1	1.000E-04	1.000E-04	1.000E-04
m-Xylene & p-Xylene	106	0.1	1.000E-04	1.000E-04	1.000E-04
Styrene	104	0.1	1.000E-04	1.000E-04	1.000E-04
o-Xylene	106	0.1	1.000E-04	1.000E-04	1.000E-04
n-Nonane	128	0.1	1.000E-04	1.000E-04	1.000E-04
i-Propylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
n-Propylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
p-Ethyltoluene	120	0.1	1.000E-04	1.000E-04	1.000E-04
m-Ethyltoluene	120	0.1	1.000E-04	1.000E-04	1.000E-04
1,3,5-Trimethylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
o-Ethyltoluene	120	0.1	1.000E-04	1.000E-04	1.000E-04
1,2,4-Trimethylbenzene & sec-					
Butylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
n-Decane	142	0.1	1.000E-04	1.000E-04	1.000E-04
alpha-Pinene	136	0.1	1.000E-04	1.000E-04	1.000E-04
beta-Pinene	136	0.1	1.000E-04	1.000E-04	1.000E-04
delta 3-Carene	136	0.1	1.000E-04	1.000E-04	1.000E-04
d-Limonene	136	0.1	1.000E-04	1.000E-04	1.000E-04
MTBE	88	0.1	1.000E-04	1.000E-04	1.000E-04
ETBE	102.0	0.1	1.000E-04	1.000E-04	1.000E-04
Dichlorodifluoromethane	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Methylchloride	50.0	0.1	2.080E-04	2.080E-04	2.080E-04
Dichlorotetrafluoroethane	171.0	0.1	7.114E-04	7.114E-04	7.114E-04

TABLE E-4. AEC - RUN NO. 1 BT TEST (28 MARCH 1998)
VOCs and TNMHC Analysis of the Air Sample - Method TO-14 and Method TO-12 Compounds below the DLs are listed as nondetected (ND); compounds in bold are duplicate values Analyzed by: Oregon Graduate Institute

The second of th	Molecular Weight	Detection Limit - Amount Detected, ug/m ³ or ppby	Detection Limit -Amount Detected, mg/m ³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
Chloroethene	63.0	0.1	2.621E-04	2.621E-04	2.621E-04
1,3-Butadiene	54.0	0.1	2.246E-04	2.246E-04	2.246E-04
Methylbromide	95.0	0.1	3.952E-04	3.952E-04	3.952E-04
Ethylchloride	64.5	0.1	2.683E-04	2.683E-04	2.683E-04
Trichloromonofluoromethane	137.0	0.1	5.699E-04	5.699E-04	5.699E-04
Vinylidenechloride	97.0	0.1	4.035E-04	4.035E-04	4.035E-04
Methylenechloride	85.0	0.1	3.536E-04	3.536E-04	3.536E-04
Allylchloride	76.5	0.1	3.182E-04	3.182E-04	3.182E-04
1,1,2-Trichloro-1,2,2- trifluoroethane	188.0	0.1	7.821E-04	7.821E-04	7.821E-04
1,1-Dichloroethane	99.0	0.1	4.118E-04	4.118E-04	4.118E-04
1,2-Dichloroethene	97.0	0.1	4.035E-04	4.035E-04	4.035E-04
Chloroform	119.0	0.1	4.950E-04	4.950E-04	4.950E-04
1,2-Dichloroethane	99.0	0.1	4.118E-04	4.118E-04	4.118E-04
Methylchloroform	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
Benzene	78.0	0.1	3.245E-04	3.245E-04	3.245E-04
Carbontetrachloride	154.0	0.1	6.406E-04	6.406E-04	6.406E-04
1,2-Dichloropropane	113.0	0.1	4.701E-04	4.701E-04	4.701E-04
Trichloroethylene	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
cis 1,3-Dichloro-1-propene	111.0	0.1	4.618E-04	4.618E-04	4.618E-04
trans 1,3-Dichloro-1-propene	111.0	0.1	4.618E-04	4.618E-04	4.618E-04
1,1,2-Trichloroethane	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
Toluene	92.0	0.1	3.827E-04	3.827E-04	3.827E-04
1,2-Dibromoethane	188.0	0.1	7.821E-04	7.821E-04	7.821E-04
Perchloroethylene	166.0	0.1	6.906E-04	6.906E-04	6.906E-04
Chlorobenzene	113.0	0.1	4.701E-04	4.701E-04	4.701E-04
Ethylbenzene	160.0	0.1	6.656E-04	6.656E-04	6.656E-04
m&p-Xylene	106.0	0.1	4.410E-04	4.410E-04	4.410E-04
Styrene	104.0	0.1	4.326E-04	4.326E-04	4.326E-04
1,1,2,2-Tetrachloroethane	168.0	0.1	6.989E-04	6.989E-04	6.989E-04
o-Xylene	106.0	0.1	4.410E-04	4.410E-04	4.410E-04
p-Ethyltoluene	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
1,3,5-Trimethylbenzene	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
1,2,4-Trimethylbenzene	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Benzylchloride	127.0	0.1	5.283E-04	5.283E-04	5.283E-04
m-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04	6.115E-04
p-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04	6.115E-04
o-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04	6.115E-04
1,2,4-Trichlorobenzene	181.0	0.1	7.530E-04	7.530E-04	7.530E-04
Hexachlorobutadiene	261.0	0.1	1.086E-03	1.086E-03	1.086E-03
Phenylacetylene	102.0	0.1	4.243E-04	4.243E-04	4.243E-04
Indane	118.0	0.1	4.909E-04	4.909E-04	4.909E-04

TABLE E-4. AEC - RUN NO. 1 BT TEST (28 MARCH 1998)

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppbv	Detection Limit -Amount Detected, mg/m³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m ³
2,3-Dihydro-1-methyl-1H-indene	132.0	0.1	5.491E-04	5.491E-04	5.491E-04
2,3-Dihydro-4-methyl-1H-indene	132.0	0.1	5.491E-04	5.491E-04	5.491E-04
Naphthalene	128.0	0.1	5.325E-04	5.325E-04	5.325E-04
2-Methylnaphthalene	142.0	0.1	5.907E-04	5.907E-04	5.907E-04
1-Methylnaphthalene	142.0	0.1	5.907E-04	5.907E-04	5.907E-04
Cyanogen	52	0.1	2.163E-04	2.163E-04	2.163E-04
Methylnitrite	61.0	0.1	2.538E-04	2.538E-04	2.538E-04
Acetonitrile	41.0	0.1	1.706E-04	1.706E-04	1.706E-04
Acrylonitrile	53.0	0.1	2.205E-04	2.205E-04	2.205E-04
Nitromethane	61.0	0.1	2.538E-04	2.538E-04	2.538E-04
Propanenitrile	55.0	0.1	2.288E-04	2.288E-04	2.288E-04
2-Methylpropanenitrile	69.0	0.1	2.870E-04	2.870E-04	2.870E-04
Pentanenitrile	83.0	0.1	3.453E-04	3.453E-04	3.453E-04
Hexanenitrile	97.0	0.1	4.035E-04	4.035E-04	4.035E-04
Benzonitrile	103.0	0.1	4.285E-04	4.285E-04	4.285E-04
2-Nitrophenol	139.0	0.1	5.782E-04	5.782E-04	5.782E-04
Acrolein	56.0	0.1	2.330E-04	2.330E-04	2.330E-04
Acetone	56.0	0.1	2.330E-04	2.330E-04	2.330E-04
1-Hydroxy-2-propanone	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
Furan	68.0	0.1	2.829E-04	2.829E-04	2.829E-04
2-Propanol	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
2-Methylpropanal	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
1-Propanol	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
Methacrolein	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
Methyl-vinyl Ketone	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
MTBE	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
2,3-Butanedione	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
Butanal	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
2-Butanone	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
2-Methyl-1,3-dioxolane	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
2-Methylfuran	82.0	0.1	3.411E-04	3.411E-04	3.411E-04
Tetrahydrofuran	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
trans-2-Butenal	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
Acetic Acid	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
1-Butanol	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
2-Pentanone	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
Pentanal	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
1,4-Dioxane	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
Methyl Methacrylate	100.0	0.1	4.160E-04	4.160E-04	4.160E-04
Cyclopentanone	84.0	0.1	3.494E-04	3.494E-04	3.494E-04
Hexanal	100.0	0.1.	4.160E-04	4.160E-04	4.160E-04
2-Furaldehyde	96.0	0.1	3.994E-04	3.994E-04	3.994E-04

TABLE E-4. AEC - RUN NO. 1 BT TEST (28 MARCH 1998)

VOCs and TNMHC Analysis of the Air Sample - Method TO-14 and Method TO-12

Compounds below the DLs are listed as nondetected (ND); compounds in bold are duplicate values Analyzed by: Oregon Graduate Institute

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppby	Detection Limit -Amount Detected, mg/m ³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
Cyclohexanone	98.0	0.1	4.077E-04	4.077E-04	4.077E-04
Heptanal	114.0	0.1	4.742E-04	4.742E-04	4.742E-04
2-Butoxyethanol	118.0	0.1	4.909E-04	4.909E-04	4.909E-04
Benzaldehyde	106.0	0.1	4.410E-04	4.410E-04	4.410E-04
6-Methyl-5-hepten-2-one	126.0	0.1	5.242E-04	5.242E-04	5.242E-04
Octanal	128.0	0.1	5.325E-04	5.325E-04	5.325E-04
Benzofuran	118.0	0.1	4.909E-04	4.909E-04	4.909E-04
2-Ethyl-1-hexanol	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Acetophonone	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Nonanal	142.0	0.1	5.907E-04	5.907E-04	5.907E-04
Decanal	156.0	0.1	6.490E-04	6.490E-04	6.490E-04
Carbonyl Sulfide	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
Carbon Disulfide	76.0	0.1	3.162E-04	3.162E-04	3.162E-04
Thiophene	84.0	0.1	3.494E-04	3.494E-04	3.494E-04
Dimethyldisulfide	94.0	0.1	3.910E-04	3.910E-04	3.910E-04

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SIMULATOR FLASH ARTILLERY M110

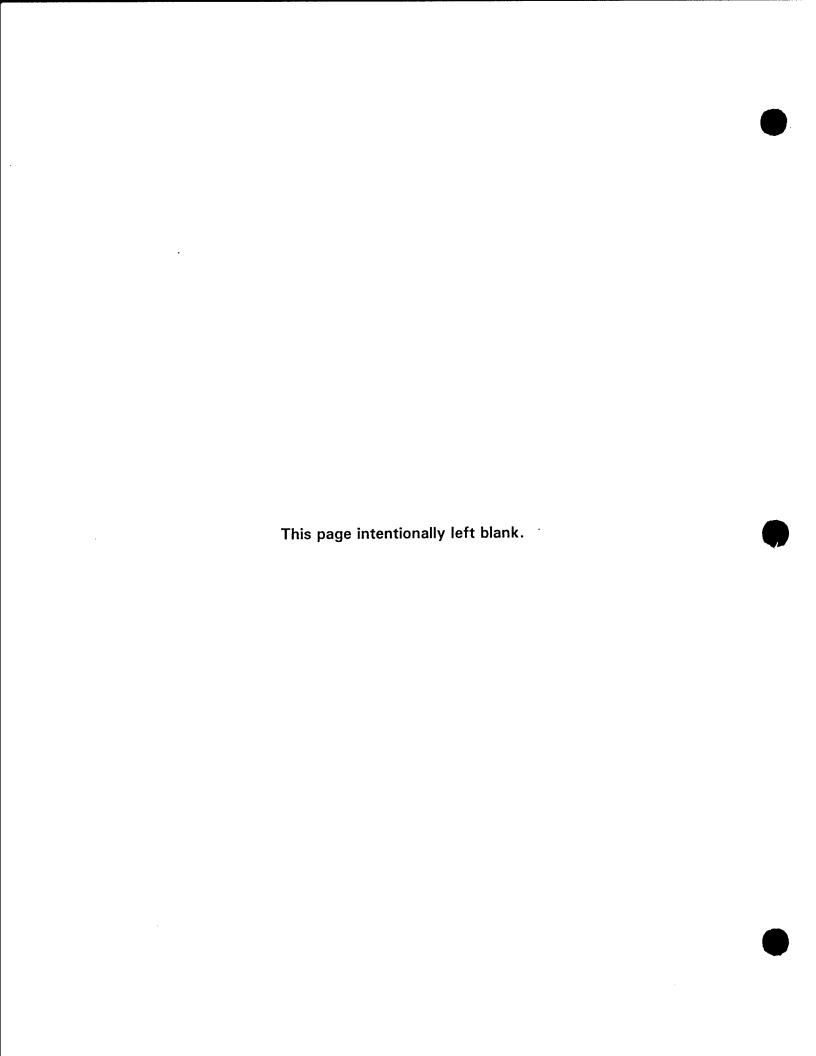


TABLE E-1. AEC - RUN NO. 1 FA TEST (28 MARCH 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ug/m ³	Run 1 Sample 1 - Amount Detected, mg/m³	Run 1 Sample 2 - Amount Detected, ug/m³ (a)	Run 1 Sample 2 - Amount Detected, mg/m³ (a)	Average Concentration - Run 1, mg/m ³
TNMHC	3019.50	3.020E+00	ND	ND	3.020E+00
Ethane	1.60	1.600E-03	ND	ND	1.600E-03
Ethylene	22.20	2.220E-02	ND	ND	2.220E-02
Acetylene	8.00	8.000E-03	ND	ND	8.000E-03
Propane	0.50	5.000E-04	ND	ND	5.000E-04
Propene	9.60	9.600E-03	ND ND	ND	9.600E-03
i-Butane	3.50	3.500E-03	ND	ND	3.500E-03
i-Butene	6.70	6.700E-03	ND	ND	6.700E-03
1-Butene	2.30	2.300E-03	ND	ND	2.300E-03
1,3-Butadiene	2.00	2.000E-03	ND	ND	2.000E-03
n-Butane	20.50	2.050E-02	ND	ND	2.050E-02
trans-2-Butene	1.70	1.700E-03	ND	ND	1.700E-03
2,2-Dimethylpropane	ND	ND	ND	ND	ND
cis-2-Butene	0.50	5.000E-04	ND	ND	5.000E-04
3-Methyl-1-butene	0.40	4.000E-04	ND	ND	4.000E-04
i-Pentane	124.10	1.241E-01	ND	ND	1.241E-01
1-Pentene	0.80	8.000E-04	ND	ND	8.000E-04
2-Methyl-1-butene	1.40	1.400E-03	ND	ND	1.400E-03
n-Pentane	127.30	1.273E-01	ND	ND	1.273E-01
Isoprene	0.10	1.000E-04	ND	ND	1.000E-04
trans-2-Pentene	0.90	9.000E-04	ND	ND	9.000E-04
cis-2-Pentene	0.50	5.000E-04	ND	ND	5.000E-04
2-Methyl-2-butene	0.40	4.000E-04	ND	ND	4.000E-04
2,2-Dimethylbutane	11.20	1.120E-02	ND	ND	1.120E-02
Cyclopentene	0.40	4.000E-04	ND	ND	4.000E-04
4-Methyl-1-pentene	0.40	4.000E-04	ND	ND	4.000E-04
Cyclopentane	10.50	1.050E-02	ND	ND	1.050E-02
2,3-Dimethylbutane	25.00	2.500E-02	ND	ND	2.500E-02
cis-4-Methyl-2-pentene	ND	ND	ND	ND	ND
2-Methylpentane	125.60	1.256E-01	ND	ND	1.256E-01
3-Methylpentane	89.00	8.900E-02	ND	ND	8.900E-02
2-Methyl-1-pentene	0.70	7.000E-04	ND	ND	7.000E-04
1-Hexene	0.40	4.000E-04	ND	ND	4.000E-04
n-Hexane	143.80	1.438E-01	ND	ND	1.438E-01
trans-2-Hexene	0.70	7.000E-04	ND	ND	7.000E-04
2-Methyl-2-pentene	0.40	4.000E-04	ND	ND	4.000E-04
cis-2-Hexene	0.40	4.000E-04	ND	ND	4.000E-04
Methylcyclopentane	53.80	5.380E-02	ND	ND	5.380E-02
2,4-Dimethylpentane	14.90	1.490E-02	ND	ND	1.490E-02
Benzene	123.30	1.233E-01	ND	ND	1.233E-01
Cyclohexane	63.50	6.350E-02	ND	ND	6.350E-02
2-Methylhexane	73.50	7.350E-02	ND	ND	7.350E-02

TABLE E-1. AEC - RUN NO. 1 FA TEST (28 MARCH 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ug/m ³	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ug/m³ (a)	Run 1 Sample 2 - Amount Detected, mg/m³ (a)	Average Concentration - Run 1, mg/m³
2,3-Dimethylpentane	26.80	2.680E-02	ND	ND	2.680E-02
3-Methylhexane	82.50	8.250E-02	ND	ND	8.250E-02
2,2,4-Trimethylpentane	25.20	2.520E-02	ND	ND	2.520E-02
n-Heptane	106.90	1.069E-01	ND	ND	1.069E-01
2,4,4-Trimethyl-1-pentene	ND	ND	ND	ND	ND
Methylcyclohexane	109.80	1.098E-01	ND	ND	1.098E-01
2,4,4-Trimethyl-2-pentene	ND	ND	ND	ND	ND
2,5-Dimethylhexane	9.90	9.900E-03	ND	ND	9.900E-03
2,4-Dimethylhexane	12.70	1.270E-02	ND	ND	1.270E-02
2,3,4-Trimethylpentane	4.00	4.000E-03	ND	ND	4.000E-03
Toluene	250.40	2.504E-01	ND	ND	2.504E-01
2,3-Dimethylhexane	6.40	6.400E-03	ND	ND	6.400E-03
2-Methylheptane	33.40	3.340E-02	ND	ND	3.340E-02
3-Ethylhexane	ND	ND	ND	ND	ND
2,2-Dimethylheptane	ND	ND	ND	ND	ND
2,2,4-Trimethylhexane	2.00	2.000E-03	ND	ND	2.000E-03
n-Octane	38.40	3.840E-02	ND	ND	3.840E-02
Ethylcyclohexane	ND	ND	ND	ND	ND
Ethylbenzene	74.50	7.450E-02	ND	ND	7.450E-02
m-Xylene & p-Xylene	208.70	2.087E-01	ND	ND	2.087E-01
Styrene	2.10	2.100E-03	ND	ND	2.100E-03
o-Xylene	128.60	1.286E-01	ND	ND	1.286E-01
n-Nonane	8.70	8.700E-03	ND	ND	8.700E-03
i-Propylbenzene	2.60	2.600E-03	ND	ND	2.600E-03
n-Propylbenzene	16.80	1.680E-02	ND	ND	1.680E-02
p-Ethyltoluene	68.00	6.800E-02	ND	ND	6.800E-02
m-Ethyltoluene	31.00	3.100E-02	ND	ND	3.100E-02
1,3,5-Trimethylbenzene	42.80	4.280E-02	ND	ND	4.280E-02
o-Ethyltoluene	20.10	2.010E-02	ND	ND	2.010E-02
1,2,4-Trimethylbenzene & sec-	_				
Butylbenzene	106.60	1.066E-01	ND	ND	1.066E-01
n-Decane	2.40	2.400E-03	ND	ND	2.400E-03
alpha-Pinene	ND	ND	ND	ND	ND
beta-Pinene	ND	ND	ND	ND	ND
delta 3-Carene	ND	ND	ND	ND	ND
d-Limonene	ND	ND	ND	ND	ND
MTBE	135.10	1.351E-01	ND	ND	1.351E-01
ETBE	ND	ND	ND	ND	ND

Only one sample canister was collected and analyzed for this ordnance.

Dichlorodifluoromethane	Analyte	Run 1 Sample 1 - Amount Detected, ppbv	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ppbv (a)	Run 1 Sample 2 - Amount Detected, mg/m³ (a)	Average Concentration - Run 1, ppbv
Methylchloride ND - ND - ND Dichlorotetrafiluoroethane ND - ND - ND Chlorotethene ND - ND - ND Chlorotethene ND - ND - ND 1,3-Butadiene 9.056 - ND - ND Ethylchloride ND - ND - ND Ethylchloride ND - ND - ND Virylidenechloride ND - ND - ND Methylenechloride 3.358 - ND - 3.358E+00 Allylchoride ND - ND - ND - Allylchoride ND - ND - ND - Allylchoride ND - ND						
Dichlorotetrafluoroethane			_		•	
Chioroethene			-		•	
1,3-Butadiene 9.056 - ND - 9.056E+00 Methylpromide ND - ND - ND Ethylchloride ND - ND - ND Trichloromonofluoromethane 0.410 - ND - ND Vinylidenechloride ND - ND - ND Methylenechloride 3.358 - ND - ND Methylenechloride ND - ND - ND Allylchloride ND - ND - ND - ND Allylchloride ND - ND - <td></td> <td></td> <td>_</td> <td></td> <td>-</td> <td>the state of the s</td>			_		-	the state of the s
Methylbromide ND - ND - ND Ethylchloride ND - ND - ND - ND Trichloromonofluoromethane 0.410 - ND - ND - A.097E-01 Vinylidenechloride ND - ND - <td< td=""><td></td><td></td><td>_</td><td>1</td><td></td><td></td></td<>			_	1		
Ethylchloride ND - ND - ND Trichloromonofluoromethane 0.410 - ND - 4.997E-01 Vinylidenechloride ND - ND - ND Methylenechloride 3.358 - ND - 3.358E+00 Allylchloride ND - ND - ND 1,1,2-Trichloro-1,2,2-trifluoroethane 0.086 - ND - ND 1,1-Dichloroethane ND - ND - ND 1,2-Dichloroethane ND - ND - ND 1,2-Dichloroethane ND - ND - ND 1,2-Dichloroethane ND - ND - ND Methylchloroform ND - ND - ND Methylchloroform ND - ND - ND Methylchloroform ND - ND - 3.865E+02				A	!	
Trichloromonofluoromethane 0.410 - ND - 4.097E-01 Vinylidenechloride ND - ND - ND Methylenechloride 3.358 - ND - 3.358E+00 Allylchloride ND - ND - ND 1,1-2-Trichloro-1,2,2-trifluoroethane 0.086 - ND - ND 1,1-Dichloroethane ND - ND - ND 1,2-Dichloroethane ND - ND - ND 1,2-Dichloroethane ND - ND - ND 1,2-Dichloroethane ND - ND - ND Methylchloroform ND - ND - ND Methylchloroform ND - ND - ND Benzene 386,498 - ND - 7.646E-02 1,2-Dichloroformopane ND - ND - ND			-		-	
Vinylidenechloride ND - ND - ND Methylenechloride 3.358 - ND - 3.358E+00 Allylchloride ND - ND - ND - ND 1,1-2-Trichloro-1,2,2-trifluoroethane 0.086 - ND			-		-	
Methylenechloride 3.358 - ND - 3.358E+00 Allylchloride ND - ND - ND 1,1,2-Trichloro-1,2,2-trifluoroethane 0.086 - ND - ND 1,1-Dichloroethane ND - ND - ND 1,2-Dichloroethane ND - ND - ND Chloroform ND - ND - ND Methylchloroform ND - ND - ND Methylchloroform ND - ND - ND Methylchloroform ND - ND - ND Benzene 386.498 - ND - ND Carbontetrachloride 0.076 - ND - 7.646E-02 1,2-Dichloroporpapane ND - ND - ND Trichloroethylene ND - ND - ND Trichloroethyle			-		 	
Allylchloride			-		-	
1,1,2-Trichloro-1,2,2-trifluoroethane 0.086 - ND - 8.608E-02 1,1-Dichloroethane ND - ND - ND 1,2-Dichloroethene ND - ND - ND Chloroform ND - ND - ND 1,2-Dichloroethane ND - ND - ND Methylchloroform ND - ND - ND Benzene 386.498 - ND - ND - ND Benzene 386.498 - ND - ND - ND - ND - 7.646E-02 1,2-Dichlorofordede 0.076 - ND - </td <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td>THE PERSON NAMED IN COLUMN TO THE PE</td>			-		-	THE PERSON NAMED IN COLUMN TO THE PE
1,2-Dichloroethene ND - ND - ND Chloroform ND - ND - ND - ND 1,2-Dichloroethane ND -	1,1,2-Trichloro-1,2,2- trifluoroethane	0.086	-		-	
Chloroform ND - ND - ND 1,2-Dichloroethane ND - ND - ND Methylchloroform ND - ND - ND Benzene 386.498 - ND - 3.865E+02 Carbontetrachloride 0.076 - ND - 7.646E-02 1,2-Dichloropropane ND - ND - ND 7,2-Dichloropropane ND - ND - ND 7,1,2-Dichloropropane ND - ND - ND 7,1,2-Dichlorop-1-propene ND - ND - ND 1,1,2-Tichloroethane ND - ND - ND 1,1,2-Tichloroethane ND - ND - ND 1,2-Dibromoethane ND - ND - ND 1,2-Dibromoethane ND - ND - ND Perchloroethylene			-	ND	-	
1,2-Dichloroethane ND - ND - ND Methylchloroform ND - ND - ND - ND Benzene 386.498 - ND - 3.865E+02 - ND - 7.646E-02 1,2-Dichlorothoride 0.076 - ND - ND - 7.646E-02 1,2-Dichlorothoride 0.076 - ND -			-	ND	-	ND
Methylchloroform ND - ND - ND Benzene 386.498 - ND - 3.865E+02 Carbontetrachloride 0.076 - ND - 7.646E-02 1,2-Dichloropropane ND - ND - ND Trichloroethylene ND - ND - ND Trichloroethylene ND - ND - ND Tans 1,3-Dichloro-1-propene ND - ND - N		ND	-	ND	-	ND
Benzene 386.498 - ND - 3.865E+02 Carbontetrachloride 0.076 - ND - 7.646E-02 1,2-Dichloropropane ND - ND - ND Trichloroethylene ND - ND - ND cis 1,3-Dichloro-1-propene ND - ND - ND trans 1,3-Dichloro-1-propene ND - ND - ND 1,1,2-Protechne 665.465 - ND - ND 1,1,2-Protechne ND - ND -		ND	-	ND	-	ND
Carbontetrachloride 0.076 - ND - 7.646E-02 1,2-Dichloropropane ND - ND - ND Trichloroethylene ND - ND - ND cis 1,3-Dichloro-1-propene ND - ND - ND trans 1,3-Dichloro-1-propene ND - ND - ND 1,1,2-Trichloroethane ND - ND - ND 1,1,2-Trichloroethane ND - ND - ND Toluene 665.465 - ND - 6.655E+02 1,2-Dibromoethylene 7.060 - ND - ND Perchloroethylene 7.060 - ND - ND Chlorobenzene ND - ND - ND Chlorobenzene ND - ND - ND - ND - 1.718E+02 Thylene 171.842 - N		ND	-		•	
1,2-Dichloropropane ND - ND - ND Trichloroethylene ND - ND - ND cis 1,3-Dichloro-1-propene ND - ND - ND trans 1,3-Dichloro-1-propene ND - ND - ND 1,1,2-Trichloroethane ND - ND - ND 1,2-Dibromoethane ND - ND - ND 1,2-Dibromoethane ND - ND - ND Perchloroethylene 7.060 - ND - ND Perchloroethylene 7.060 - ND - ND Chlorobenzene ND - ND - ND Ethylbenzene 171.842 - ND - ND - 1.718E+02 Styrene 1ND - ND - ND - ND 1,1,2,2-Tetrachloroethane ND - ND		386.498	•	ND	-	3.865E+02
Trichloroethylene ND - ND - ND cis 1,3-Dichloro-1-propene ND - ND - ND trans 1,3-Dichloro-1-propene ND - ND - ND 1,1,2-Trichloroethane ND - ND - ND 1,2-Dibromoethane ND - ND - ND Perchloroethylene 7.060 - ND - ND Perchloroethylene 7.060 - ND - ND Chlorobenzene ND - ND - ND Chlorobenzene ND - ND - ND Ethylbenzene 171.842 - ND - 1.718E+02 m&p-Xylene 481.334 - ND - ND Styrene ND - ND - ND 0-Xylene 296.629 - ND - 2.966E+02 p-Ethyltoluene			-		-	7.646E-02
cis 1,3-Dichloro-1-propene ND - ND - ND trans 1,3-Dichloro-1-propene ND - ND - ND 1,1,2-Trichloroethane ND - ND - ND Toluene 665.465 - ND - 6.655E+02 1,2-Dibromoethane ND - ND - ND Perchloroethylene 7.060 - ND - ND Perchloroethylene 7.060 - ND - 7.060E+00 Chlorobenzene ND - ND - ND - ND Chlorobenzene ND - 1.718E+02 ND - ND			-		-	ND
trans 1,3-Dichloro-1-propene ND - ND - ND 1,1,2-Trichloroethane ND - ND - ND Toluene 665.465 - ND - 6.655E+02 1,2-Dibromoethane ND - ND - ND Perchloroethylene 7.060 - ND - 7.060E+00 Chlorobenzene ND - ND - ND Chlorobenzene ND - ND - ND Ethylbenzene 171.842 - ND - 1.718E+02 MB-Xylene 481.334 - ND - ND - ND Styrene ND - ND - ND ND ND ND ND ND ND ND ND - ND - ND - ND - ND - 2.966E+02 - ND - ND - 8.882E+01 </td <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td>			-		-	
1,1,2-Trichloroethane ND - ND - ND Toluene 665.465 - ND - 6.655E+02 1,2-Dibromoethane ND - ND - ND Perchloroethylene 7.060 - ND - 7.060E+00 Chlorobenzene ND - ND - ND - ND Ethylbenzene 171.842 - ND - 1.718E+02 ND - 1.718E+02 ND - 1.718E+02 ND - ND </td <td></td> <td></td> <td>-</td> <td>ND</td> <td>-</td> <td></td>			-	ND	-	
Toluene 665.465 - ND - 6.655E+02 1,2-Dibromoethane ND - ND - ND Perchloroethylene 7.060 - ND - 7.060E+00 Chlorobenzene ND - ND - ND Ethylbenzene 171.842 - ND - 1.718E+02 m&p-Xylene 481.334 - ND - ND - ND 5tyrene ND - 2.966E+02 - ND - 9.227E+01 - 1,3,5-Trimethylbenzene 88.816 - ND - ND - 1.711E+02 - ND -			-		-	
1,2-Dibromoethane ND - ND - ND Perchloroethylene 7.060 - ND - 7.060E+00 Chlorobenzene ND - ND - ND Ethylbenzene 171.842 - ND - 1.718E+02 m&p-Xylene 481.334 - ND - ND - ND 5tyrene ND - 2.966E+02 - ND - 9.227E+01 - 1,3,5-Trimethylbenzene 88.816 - ND - ND - 1,711E+02 - ND -			-		-	
Perchloroethylene 7.060 - ND - 7.060E+00 Chlorobenzene ND - ND - ND Ethylbenzene 171.842 - ND - 1.718E+02 m&p-Xylene 481.334 - ND - 4.813E+02 Styrene ND - ND - ND 1,1,2,2-Tetrachloroethane ND - ND - ND o-Xylene 296.629 - ND - 2.966E+02 p-Ethyltoluene 92.273 - ND - 9.227E+01 1,3,5-Trimethylbenzene 88.816 - ND - 8.882E+01 1,2,4-Trimethylbenzene 171.076 - ND - ND Benzylchloride ND - ND - ND m-Dichlorobenzene ND - ND - ND			-		-	
Chlorobenzene ND - ND - ND Ethylbenzene 171.842 - ND - 1.718E+02 m&p-Xylene 481.334 - ND - 4.813E+02 Styrene ND - ND - ND 1,1,2,2-Tetrachloroethane ND - ND - ND 0-Xylene 296.629 - ND - 2.966E+02 p-Ethyltoluene 92.273 - ND - 9.227E+01 1,3,5-Trimethylbenzene 88.816 - ND - 8.882E+01 1,2,4-Trimethylbenzene 171.076 - ND - 1.711E+02 Benzylchloride ND - ND - ND m-Dichlorobenzene ND - ND - ND			-			
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m&p-Xylene 481.334 - ND - 4.813E+02 Styrene ND - ND - ND 1,1,2,2-Tetrachloroethane ND - ND - ND 0-Xylene 296.629 - ND - 2.966E+02 p-Ethyltoluene 92.273 - ND - 9.227E+01 1,3,5-Trimethylbenzene 88.816 - ND - 8.882E+01 1,2,4-Trimethylbenzene 171.076 - ND - 1.711E+02 Benzylchloride ND - ND - ND m-Dichlorobenzene ND - ND - ND		ND	-		-	ND
Styrene ND - ND - ND 1,1,2,2-Tetrachloroethane ND - ND - ND o-Xylene 296.629 - ND - 2.966E+02 p-Ethyltoluene 92.273 - ND - 9.227E+01 1,3,5-Trimethylbenzene 88.816 - ND - 8.882E+01 1,2,4-Trimethylbenzene 171.076 - ND - 1.711E+02 Benzylchloride ND - ND - ND m-Dichlorobenzene ND - ND - ND			-		-	
1,1,2,2-Tetrachloroethane ND - ND - ND o-Xylene 296.629 - ND - 2.966E+02 p-Ethyltoluene 92.273 - ND - 9.227E+01 1,3,5-Trimethylbenzene 88.816 - ND - 8.882E+01 1,2,4-Trimethylbenzene 171.076 - ND - 1.711E+02 Benzylchloride ND - ND - ND m-Dichlorobenzene ND - ND - ND			-		-	
o-Xylene 296.629 - ND - 2.966E+02 p-Ethyltoluene 92.273 - ND - 9.227E+01 1,3,5-Trimethylbenzene 88.816 - ND - 8.882E+01 1,2,4-Trimethylbenzene 171.076 - ND - 1.711E+02 Benzylchloride ND - ND - ND m-Dichlorobenzene ND - ND - ND	Styrene		-		-	
p-Ethyltoluene 92.273 - ND - 9.227E+01 1,3,5-Trimethylbenzene 88.816 - ND - 8.882E+01 1,2,4-Trimethylbenzene 171.076 - ND - 1.711E+02 Benzylchloride ND - ND - ND m-Dichlorobenzene ND - ND - ND			-		-	
1,3,5-Trimethylbenzene 88.816 - ND - 8.882E+01 1,2,4-Trimethylbenzene 171.076 - ND - 1.711E+02 Benzylchloride ND - ND - ND m-Dichlorobenzene ND - ND - ND	o-Xylene		_		-	
1,2,4-Trimethylbenzene 171.076 - ND - 1.711E+02 Benzylchloride ND - ND - ND m-Dichlorobenzene ND - ND - ND	<u> </u>		-		-	9.227E+01
Benzylchloride ND - ND - ND m-Dichlorobenzene ND - ND - ND		88.816	•		-	
m-Dichlorobenzene ND - ND - ND			-	ND	_	1.711E+02
		ND	-	ND	-	ND
p-Dichlorobenzene ND - ND - ND	m-Dichlorobenzene	ND	-	ND	-	
	p-Dichlorobenzene	ND	-	ND	-	ND

TABLE E-2. AEC - RUN NO. 1 FA TEST (28 MARCH 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ppbv	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ppbv (a)	Run 1 Sample 2 - Amount Detected, mg/m³ (a)	Average Concentration - Run 1, ppbv
o-Dichlorobenzene	ND	-	ND	-	ND
1,2,4-Trichlorobenzene	ND	-	ND	-	ND
Hexachlorobutadiene	ND	-	ND	-	ND
Phenylacetylene	ND	- '	ND	-	ND
Indane	38.608	-	ND	-	3.861E+01
2,3-Dihydro-1-methyl-1H-indene	10.064	 	ND ND	-	1.006E+01
2,3-Dihydro-4-methyl-1H-indene	12.908	-	ND	-	1.291E+01
Naphthalene	17.218	_	ND	_	1.722E+01
2-Methylnaphthalene	1.572	 _ '	ND ND	_	1.572E+00
1-Methylnaphthalene	ND	 '	ND ND	-	ND
Cyanogen	ND ND	 '	ND ND	_	ND ND
Methylnitrite	12.133	 	ND ND	-	1.213E+01
Acetonitrile	ND	 	ND	-	ND
Acrylonitrile	ND		ND ND	_	ND ND
Nitromethane	2.148		ND ND	-	2.148E+00
Propanenitrile	ND	-	ND ND	_	ND
2-Methylpropanenitrile	ND ND	_	ND ND	_	ND ND
Pentanenitrile	ND ND	-	ND ND	-	ND ND
Hexanenitrile	ND ND	 	ND ND		ND ND
Benzonitrile	ND ND	-	ND ND	-	ND ND
2-Nitrophenol	ND ND	ļ <u>-</u>	ND ND	-	ND ND
Acrolein	3.308	-	ND ND	-	3.308E+00
Acetone	3.308 ND	-	ND ND	-	3.306E+00 ND
1-Hydroxy-2-propanone	ND ND	-	ND ND	-	ND ND
T-Hydroxy-2-propanone Furan	ND ND	-	ND ND	-	ND ND
2-Propanol	ND ND	 	ND ND	_	ND ND
!	ND ND		ND ND	<u>-</u>	ND ND
2-Methylpropanal	ND ND	<u> </u>	1	-	ND ND
1-Propanol		ļ <u>-</u>	ND ND	-	
Methacrolein	ND	<u> </u>	ND ND	-	ND ND
Methyl-vinyl Ketone	ND	-	ND ND	-	ND
MTBE	375.330	-	ND ND	-	3.753E+02
2,3-Butanedione	ND ND	-	ND ND	-	ND ND
Butanal	ND 1000	-	ND ND	•	ND
2-Butanone	4.063	-	ND ND	-	4.063E+00
2-Methyl-1,3-dioxolane	ND	-	ND		ND
2-Methylfuran	ND	-	ND	-	ND
Tetrahydrofuran	ND	-	ND	-	ND
trans-2-Butenal	ND	•	ND	_	ND
Acetic Acid	10.372	-	ND	-	1.037E+01
1-Butanol	ND	-	ND	-	ND

TABLE E-2. AEC - RUN NO. 1 FA TEST (28 MARCH 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ppby	Run 1 Sample 1 - Amount Detected, mg/m³	Run 1 Sample 2 - Amount Detected, ppbv (a)	Run 1. Sample 2 - Amount Detected, mg/m³ (a)	Average Concentration - Run 1, ppbv
2-Pentanone	ND	-	ND	-	ND
Pentanal	ND	•	ND	-	ND
1,4-Dioxane	ND	-	ND	-	ND
Methyl Methacrylate	ND	-	ND	-	ND
Cyclopentanone	ND	-	ND	-	ND
Hexanal	ND	-	ND	-	ND
2-Furaldehyde	ND		ND	-	ND
Cyclohexanone	ND	-	ND	-	ND
Heptanal	1.611	-	ND	-	1.611E+00
2-Butoxyethanol	ND	-	ND	-	ND
Benzaldehyde	9.252	-	ND	-	9.252E+00
6-Methyl-5-hepten-2-one	ND	-	ND	-	ND
Octanal	3.860	_	ND	-	3.860E+00
Benzofuran	ND	-	ND	-	ND
2-Ethyl-1-hexanol	ND	-	ND	-	ND
Acetophonone	ND	-	ND	-	ND
Nonanal	5.043	-	ND	-	5.043E+00
Decanal	4.321	-	ND	-	4.321E+00
Carbonyl Sulfide	0.957	-	ND	-	9.565E-01
Carbon Disulfide	1.638	-	ND	-	1.638E+00
Thiophene	ND	-	ND	-	ND
Dimethyldisulfide	ND	-	ND	-	ND

a Only one sample canister was collected and analyzed for this ordnance.

TABLE E-3. AEC - RUN NO. 2 FA TEST (28 MARCH 1998)

	Run 2	Run 2	Run 2	Run 2	
	Sample 1 -	Sample 1 -	Sample 2 -	Sample 2 -	
	Amount	Amount	Amount	Amount	Average
	Detected,	Detected,	Detected,	Detected,	Concentration -
Analyte	ug/m³	mg/m³	ug/m³ (a)	mg/m³ (a)	Run 2, mg/m ³
TNMHC	1515.30	1.515E+00	ND	ND	1.515E+00
Ethane	1.50	1.500E-03	ND	ND	1.500E-03
Ethylene	18.70	1.870E-02	ND	ND	1.870E-02
Acetylene	7.60	7.600E-03	ND	ND	7.600E-03
Propane	1.00	1.000E-03	ND	ND	1.000E-03
Propene	9.00	9.000E-03	ND	ND	9.000E-03
i-Butane	2.80	2.800E-03	ND	ND	2.800E-03
i-Butene	5.10	5.100E-03	ND	ND	5.100E-03
1-Butene	2.30	2.300E-03	ND	ND	2.300E-03
1,3-Butadiene	1.70	1.700E-03	ND ND	ND	1.700E-03
n-Butane	10.80	1.080E-02	ND	ND	1.080E-02
trans-2-Butene	1.50	1.500E-03	ND	ND	1.500E-03
2,2-Dimethylpropane	ND	ND	ND	ND	ND
cis-2-Butene	0.50	5.000E-04	ND	ND	5.000E-04
3-Methyl-1-butene	0.40	4.000E-04	ND	ND	4.000E-04
i-Pentane	40.70	4.070E-02	ND	ND	4.070E-02
1-Pentene	0.80	8.000E-04	ND	ND	8.000E-04
2-Methyl-1-butene	0.90	9.000E-04	ND	ND	9.000E-04
n-Pentane	40.90	4.090E-02	ND	ND	4.090E-02
Isoprene	0.10	1.000E-04	ND	ND	1.000E-04
trans-2-Pentene	0.60	6.000E-04	ND.	ND	6.000E-04
cis-2-Pentene	0.30	3.000E-04	ND	ND	3.000E-04
2-Methyl-2-butene	0.50	5.000E-04	ND	ND	5.000E-04
2,2-Dimethylbutane	3.60	3.600E-03	ND	ND	3.600E-03
Cyclopentene	0.30	3.000E-04	ND	ND	3.000E-04
4-Methyl-1-pentene	0.20	2.000E-04	ND	ND	2.000E-04
Cyclopentane	3.40	3.400E-03	ND	ND	3.400E-03
2,3-Dimethylbutane	8.20	8.200E-03	ND	ND	8.200E-03
cis-4-Methyl-2-pentene	ND	ND	ND	ND	ND
2-Methylpentane	43.20	4.320E-02	ND	ND	4.320E-02
3-Methylpentane	30.20	3.020E-02	ND	ND	3.020E-02
2-Methyl-1-pentene	ND	ND	ND	ND	ND
1-Hexene	ND	ND	ND	ND	ND
n-Hexane	56.60	5.660E-02	ND	ND	5.660E-02
trans-2-Hexene	0.40	4.000E-04	ND	ND	4.000E-04
2-Methyl-2-pentene	0.50	5.000E-04	ND	ND	5.000E-04
cis-2-Hexene	0.20	2.000E-04	ND	ND	2.000E-04
Methylcyclopentane	19.50	1.950E-02	ND	ND	1.950E-02
2,4-Dimethylpentane	5.60	5.600E-03	ND	ND	5.600E-03
Benzene	51.40	5.140E-02	ND	ND	5.140E-02
Cyclohexane	24.00	2.400E-02	ND	ND	2.400E-02
2-Methylhexane	33.10	3.310E-02	ND	ND	3.310E-02

TABLE E-3. AEC - RUN NO. 2 FA TEST (28 MARCH 1998)

2,3-Dimethylpentane 3-Methylhexane 2,2,4-Trimethylpentane	7.30 33.30 7.40	mg/m ³ 7.300E-03	ug/m³ (a)		Run 2, mg/m³
3-Methylhexane	33.30	7.300E-03	ND	mg/m³ (a)	
		3.330E-02	ND	ND ND	7.300E-03 3.330E-02
12,2,4° minethylpentane	7.40	7.400E-03	ND	ND ND	7.400E-03
n-Heptane	44.60	4.460E-02	ND	ND	4.460E-02
2,4,4-Trimethyl-1-pentene	ND	4.400L-02 ND	ND	ND ND	4.460E-02 ND
Methylcyclohexane	44.40	4.440E-02	ND	ND	4.440E-02
2,4,4-Trimethyl-2-pentene	ND	4.440E-02 ND	ND ND	ND	4.440E-02 ND
2,5-Dimethylhexane	5.90	5.900E-03	ND	ND	
2,4-Dimethylhexane	5.50	5.500E-03	ND ND		5.900E-03
2,3,4-Trimethylpentane	1.90		ND	ND	5.500E-03
Toluene		1.900E-03		ND	1.900E-03
	194.60	1.946E-01	ND	ND	1.946E-01
2,3-Dimethylhexane	2.90 15.30	2.900E-03	ND	ND	2.900E-03
2-Methylheptane 3-Ethylhexane	ND	1.530E-02	ND	ND	1.530E-02
2,2-Dimethylheptane	ND	ND ND	ND	ND	ND ND
2,2,4-Trimethylhexane			ND	ND	ND
n-Octane	2.20 17.50	2.200E-03	ND	ND	2.200E-03
	17.50 ND	1.750E-02	ND	ND_	1.750E-02
Ethylcyclohexane		ND	ND	ND ND	ND
Ethylbenzene m-Xylene & p-Xylene	37.90	3.790E-02	ND	ND	3.790E-02
Styrene	106.40 1.30	1.064E-01	ND	ND	1.064E-01
o-Xylene		1.300E-03	ND ND	ND	1.300E-03
n-Nonane	68.90 4.70	6.890E-02		ND	6.890E-02
	1.40	4.700E-03	ND	ND	4.700E-03
i-Propylbenzene n-Propylbenzene		1.400E-03	ND	ND	1.400E-03
	9.40	9.400E-03	ND	ND	9.400E-03
p-Ethyltoluene	38.70	3.870E-02	ND	ND	3.870E-02
m-Ethyltoluene 1,3,5-Trimethylbenzene	17.70	1.770E-02	ND ND	ND	1.770E-02
o-Ethyltoluene	25.30 11.60	2.530E-02	ND ND	ND	2.530E-02
1,2,4-Trimethylbenzene & sec-	11.00	1.160E-02	עא	ND	1.160E-02
Butylbenzene	63.00	6 2005 02	ND	ND	6 2005 00
n-Decane	63.00 1.40	6.300E-02	ND	ND	6.300E-02
alpha-Pinene	1.40 ND	1.400E-03	ND	ND	1.400E-03
beta-Pinene	טא ND	ND	ND	ND	ND ND
delta 3-Carene		ND ND	ND	ND	ND ND
	ND	ND	ND	ND	ND ND
d-Limonene	ND 44.00	ND	ND	ND	ND
MTBE ETBE	44.90 ND	4.490E-02 ND	ND ND	ND ND	4.490E-02 ND

a Only one sample canister was collected and analyzed for this ordnance.

TABLE E-4. AEC - RUN NO. 2 FA TEST (28 MARCH 1998)

Analyte	Run 2 Sample 1 - Amount Detected, ppbv	Run 2 Sample 1 - Amount Detected, mg/m ³	Run 2 Sample 2 - Amount Detected, ppbv (a)	Run 2 Sample 2 - Amount Detected, mg/m³ (a)	Average Concentration - Run 2, ppbv
Dichlorodifluoromethane	0.332	-	ND	-	3.319E-01
Methylchloride	ND	-	ND	-	ND
Dichlorotetrafluoroethane	ND	-	ND	-	ND
Chloroethene	ND	-	ND	-	ND
1,3-Butadiene	7.697	-	ND	_	7.697E+00
Methylbromide	ND	-	ND	-	ND
Ethylchloride	ND	-	ND	_	ND
Trichloromonofluoromethane	0.385	_	ND	_	3.848E-01
Vinylidenechloride	ND ND	-	ND	-	ND
Methylenechloride	1.555	_	ND	-	1.555E+00
Allylchloride	ND	_	ND	-	ND
1,1,2-Trichloro-1,2,2-	1				
trifluoroethane	0.083	-	ND	_	8.275E-02
1,1-Dichloroethane	ND	-	ND	-	ND
1,2-Dichloroethene	ND	_	ND	-	ND
Chloroform	ND	-	ND	-	ND
1,2-Dichloroethane	ND	-	ND		ND
Methylchloroform	0.058	-	ND	-	5.768E-02
Benzene	161.119	-	ND	-	1.611E+02
Carbontetrachloride	0.096	-	ND	-	9.647E-02
1,2-Dichloropropane	ND	-	ND	-	ND
Trichloroethylene	ND	-	ND	-	ND
cis 1,3-Dichloro-1-propene	ND	-	ND	-	ND
trans 1,3-Dichloro-1-propene	ND	-	ND	-	ND
1,1,2-Trichloroethane	ND	-	ND	-	ND
Toluene	517.171	-	ND	-	5.172E+02
1,2-Dibromoethane	ND	-	ND	-	ND
Perchloroethylene	ND	-	ND	-	ND
Chlorobenzene	ND	-	ND	•	ND
Ethylbenzene	87.420	-	ND	-	8.742E+01
m&p-Xylene	245.350	-	ND	-	2.453E+02
Styrene	2.925	-	ND	-	2.925E+00
1,1,2,2-Tetrachloroethane	ND	-	ND	-	ND
o-Xylene	158.925	-	ND	-	1.589E+02
p-Ethyltoluene	50.543	-	ND	-	5.054E+01
1,3,5-Trimethylbenzene	48.623	-	ND	-	4.862E+01
1,2,4-Trimethylbenzene	98.307	-	ND	-	9.831E+01
Benzylchloride	ND	-	ND	-	ND
m-Dichlorobenzene	ND	-	ND	-	ND
p-Dichlorobenzene	ND	-	ND	-	ND
	–		-		

TABLE E-4. AEC - RUN NO. 2 FA TEST (28 MARCH 1998)

		3 SAZ K. 12.			
Analyte	Run 2 Sample 1 - Amount Detected, ppbv	Run 2 Sample 1 - Amount Detected, mg/m ³	Run 2 Sample 2 - Amount Detected, ppbv (a)	Run 2 Sample 2 - Amount Detected, mg/m³ (a)	Average Concentration - Run 2, ppbv
o-Dichlorobenzene	ND	9,	ND		ND
1,2,4-Trichlorobenzene	ND	_	ND	_	ND ND
Hexachlorobutadiene	ND	-	ND		ND
Phenylacetylene	ND	_	ND		ND
Indane	22.461	_	ND		2.246E+01
2,3-Dihydro-1-methyl-1H-indene	7.046	-	ND	_	7.046E+00
2,3-Dihydro-4-methyl-1H-indene	8.704		ND	_	8.704E+00
Naphthalene	9.298	-	ND		9.298E+00
2-Methylnaphthalene	ND	-	ND		ND
1-Methylnaphthalene	ND ND	-	ND ND		ND ND
Cyanogen	ND		ND	_	ND ND
Methylnitrite	15.955	-	ND	_	1.596E+01
Acetonitrile	ND		ND	-	ND
Acrylonitrile	ND		ND		ND
Nitromethane	2.179	÷	ND		2.179E+00
Propanenitrile	ND ND	-	ND		ND
2-Methylpropanenitrile	ND		ND		ND
Pentanenitrile	ND ND	-	ND	_	ND
Hexanenitrile	ND	-	ND	_	ND
Benzonitrile	ND	_	ND	-	ND
2-Nitrophenol	ND	-	ND	_	ND
Acrolein	3.198	-	ND	-	3.198E+00
Acetone	9.242	-	ND	-	9.242E+00
1-Hydroxy-2-propanone	ND	_	ND	-	ND
Furan	ND	-	ND	-	ND
2-Propanol	ND	-	ND	-	ND
2-Methylpropanal	ND	-	ND	-	ND
1-Propanol	ND	•	ND	-	ND
Methacrolein	ND		ND		ND
Methyl-vinyl Ketone	ND	-	ND	-	ND
MTBE	124.505	-	ND	-	1.245E+02
2,3-Butanedione	ND	-	ND	-	ND
Butanal	ND	-	ND	-	ND
2-Butanone	2.704	-	ND	-	2.704E+00
2-Methyl-1,3-dioxolane	ND	-	ND	-	ND
2-Methylfuran	ND	-	ND	-	ND
Tetrahydrofuran	ND	-	ND	•	ND
trans-2-Butenal	ND	-	ND	-	ND
Acetic Acid	6.623	-	ND	-	6.623E+00
1-Butanol	ND	-	ND	-	ND

TABLE E-4. AEC - RUN NO. 2 FA TEST (28 MARCH 1998)

Analyte	Run 2 Sample 1 - Amount Detected, ppbv	Run 2 Sample 1 - Amount Detected, mg/m ³	Run 2 Sample 2 - Amount Detected, ppbv (a)	Run 2 Sample 2 - Amount Detected, mg/m³ (a)	Average Concentration - Run 2, ppbv
2-Pentanone	ND	-	ND	-	NÐ
Pentanal	ND	-	ND	-	ND
1,4-Dioxane	ND	-	ND	-	ND
Methyl Methacrylate	ND	-	ND	-	ND
Cyclopentanone	ND	-	ND	-	ND
Hexanal	ND	-	ND	_	ND
2-Furaldehyde	ND	-	ND	-	ND
Cyclohexanone	ND	-	ND	-	ND
Heptanal	1.056	-	ND	-	1.056E+00
2-Butoxyethanol	ND	-	ND	-	ND
Benzaldehyde	9.610	-	ND	-	9.610E+00
6-Methyl-5-hepten-2-one	ND	-	ND	-	ND
Octanal	2.426	-	ND	-	2.426E+00
Benzofuran	ND	_	ND	-	ND
2-Ethyl-1-hexanol	ND		ND	-	ND
Acetophonone	ND		ND	-	ND
Nonanal	2.928	-	ND	-	2.928E+00
Decanal	1.786	-	ND	-	1.786E+00
Carbonyl Sulfide	1.032	-	ND	-	1.032E+00
Carbon Disulfide	3.752	-	ND	-	3.752E+00
Thiophene	ND	-	ND	-	ND
Dimethyldisulfide	ND	-	ND	-	ND

Only one sample canister was collected and analyzed for this ordnance.

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m³	Run 2 Background Sample - Amount Detected, ug/m³ or ppby	Run 2 Background Sample - Amount Detected, mg/m³	Average Background Concentration - Run 1-2, mg/m ³
TNMHC	_	39.90	3.990E-02	312.00	3.120E-01	1.760E-01
Ethane	30	2.30	2.300E-03	2.30	2.300E-03	2.300E-03
Ethylene	28	0.40	4.000E-04	0.20	2.000E-04	3.000E-04
Acetylene	26	0.80	8.000E-04	0.70	7.000E-04	7.500E-04
Propane	44	1.00	1.000E-03	1.00	1.000E-03	1.000E-03
Propene	42	0.10	1.000E-04	0.10	1.000E-04	1.000E-04
i-Butane	58	0.40	4.000E-04	0.20	2.000E-04	3.000E-04
i-Butene	56	ND	ND	0.10	1.000E-04	1.000E-04
1-Butene	56	. ND	ND	0.10	1.000E-04	1.000E-04
1,3-Butadiene	54	ND	ND ND	ND	ND	ND ND
n-Butane	58	0.50	5.000E-04	0.50	5.000E-04	5.000E-04
trans-2-Butene	56	ND	ND	ND	ND	ND
2,2-Dimethylpropane	72	ND	ND	ND ND	ND ND	ND ND
cis-2-Butene	56	ND	ND	ND ND	ND ND	ND ND
3-Methyl-1-butene	70	ND	ND	ND ND	ND ND	ND ND
i-Pentane	72	1.00	1.000E-03	1.50	1.500E-03	1.250E-03
1-Pentene	70	ND	ND	ND	ND	ND
2-Methyl-1-butene	70	ND	ND	ND ND	ND ND	ND ND
n-Pentane	70	0.90	9.000E-04	1.70	1.700E-03	1.300E-03
Isoprene	68	ND	ND	ND	ND	ND
trans-2-Pentene	70	ND	ND ND	ND ND	ND ND	ND ND
cis-2-Pentene	70	ND	ND ND	ND ND	ND ND	ND ND
2-Methyl-2-butene	70	ND	ND ND	ND ND	ND ND	ND ND
2,2-Dimethylbutane	86	0.10	1.000E-04	0.20	2.000E-04	1.500E-04
Cyclopentene	68	ND ND	ND	ND	ND	ND
4-Methyl-1-pentene	84	ND	ND	ND	ND	ND ND
Cyclopentane	70	0.10	1.000E-04	0.20	2.000E-04	1.500E-04
2,3-Dimethylbutane	86	0.40	4.000E-04	0.50	5.000E-04	4.500E-04
cis-4-Methyl-2-pentene	84	ND	ND	ND	ND	ND
2-Methylpentane	86	1.00	1.000E-03	2.50	2.500E-03	1.750E-03
3-Methylpentane	86	0.70	7.000E-04	2.10	2.100E-03	1.400E-03
2-Methyl-1-pentene	84	ND	ND ND	ND	ND	ND
1-Hexene	84	ND	ND	ND	ND	ND
n-Hexane	86	0.80	8.000E-04	4.40	4.400E-03	2.600E-03
trans-2-Hexene	84	ND	ND ND	ND	ND	ND
2-Methyl-2-pentene	84	ND	ND	ND	ND ND	ND
cis-2-Hexene	84	ND	ND	ND	ND	ND
Methylcyclopentane	84	0.40	4.000E-04	1.90	1.900E-03	1.150E-03
2,4-Dimethylpentane	100	0.80	8.000E-04	0.70	7.000E-04	7.500E-04
Benzene	78	1.10	1.100E-03	5.10	5.100E-03	3.100E-03
Cyclohexane	84	0.20	2.000E-04	2.20	2.200E-03	1.200E-03
2-Methylhexane	100	0.40	4.000E-04	3.10	3.100E-03	1.750E-03
2,3-Dimethylpentane	100	1.60	1.600E-03	1.50	1.500E-03	1.550E-03
3-Methylhexane	100	0.40	4.000E-04	3.50	3.500E-03	1.950E-03
2,2,4-Trimethylpentane	114	3.00	3.000E-03	1.30	1.300E-03	2.150E-03
n-Heptane	100	0.40	4.000E-04	4.90	4.900E-03	2.650E-03
in replace	100	0.40	4.000E*04	7.30	4.500E-03	2.030L-03

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m³	Run 2 Background Sample - Amount Detected, ug/m³ or ppbv	Run 2 Background Sample - Amount Detected, mg/m³	Average Background Concentration - Run 1-2, mg/m³
2,4,4-Trimethyl-1-pentene	112	ND	ND	ND	ND	ND
Methylcyclohexane	98	0.20	2.000E-04	4.70	4.700E-03	2.450E-03
2,4,4-Trimethyl-2-pentene	112	ND	ND	ND	ND	ND
2,5-Dimethylhexane	114	0.20	2.000E-04	0.70	7.000E-04	4.500E-04
2,4-Dimethylhexane	114	0.30	3.000E-04	0.60	6.000E-04	4.500E-04
2,3,4-Trimethylpentane	114	0.60	6.000E-04	0.40	4.000E-04	5.000E-04
Toluene	92	2.20	2.200E-03	35.60	3.560E-02	1.890E-02
2,3-Dimethylhexane	114	0.30	3.000E-04	0.40	4.000E-04	3.500E-04
2-Methylheptane	111	0.10	1.000E-04	1.40	1.400E-03	7.500E-04
3-Ethylhexane	114	ND ND	ND	ND ND	ND	ND
2,2-Dimethylheptane	128	ND	ND	ND	ND	ND ND
2,2,4-Trimethylhexane	128	0.10	1.000E-04	1.00	1.000E-03	5.500E-04
n-Octane	114	0.10	1.000E-04	2.10	2.100E-03	1.100E-03
Ethylcyclohexane	112	ND	ND	ND	ND	ND
Ethylbenzene	160	0.30	3.000E-04	7.80	7.800E-03	4.050E-03
m-Xylene & p-Xylene	106	1.10	1.100E-03	32.10	3.210E-02	1.660E-02
Styrene	104	0.10	1.000E-04	0.30	3.000E-04	2.000E-04
o-Xylene	106	0.40	4.000E-04	17.80	1.780E-02	9.100E-03
n-Nonane	128	ND	ND	1.00	1.000E-03	1.000E-03
i-Propylbenzene	120	ND	ND	ND	ND	ND
n-Propylbenzene	120	0.20	2.000E-04	3.20	3.200E-03	1.700E-03
p-Ethyltoluene	120	0.30	3.000E-04	14.80	1.480E-02	7.550E-03
m-Ethyltoluene	120	0.10	1.000E-04	6.90	6.900E-03	3.500E-03
1,3,5-Trimethylbenzene	120	0.10	1.000E-04	9.90	9.900E-03	5.000E-03
o-Ethyltoluene	120	0.10	1.000E-04	4.80	4.800E-03	2.450E-03
1,2,4-Trimethylbenzene & sec-						
Butylbenzene	120	0.40	4.000E-04	31.00	3.100E-02	1.570E-02
n-Decane	142	ND	ND	0.50	5.000E-04	5.000E-04
alpha-Pinene	136	ND	ND	ND	ND	ND
beta-Pinene	136	ND	ND	ND	ND	ND
delta 3-Carene	136	ND	ND	ND	ND	ND
d-Limonene	136	ND	ND	ND	ND	ND
MTBE	88	0.70	7.000E-04	3.60	3.600E-03	2.150E-03
ETBE	102.0	ND	ND	ND	ND	ND ND
Dichlorodifluoromethane	120.0	0.36	1.773E-03	0.22	1.095E-03	1.434E-03
Methylchloride	50.0	ND	ND	ND	ND	ND
Dichlorotetrafluoroethane	171.0	ND	ND	ND	ND	ND
Chloroethene	63.0	ND	ND	ND	ND	ND ND
1,3-Butadiene	54.0	ND ND	ND	ND	ND ND	ND
Methylbromide	95.0	ND ND	ND	ND	ND	ND ND
Ethylchloride	64.5	ND ND	ND	ND 0.40	ND	ND 0.5005.00
Trichloromonofluoromethane	137.0	0.45	2.554E-03	0.43	2.457E-03	2.506E-03
Vinylidenechloride	97.0	ND	ND	ND	ND	ND
Methylenechloride	85.0	0.09	3.173E-04	0.46	1.638E-03	9.779E-04
Allylchloride	76.5	ND	ND	ND	ND	ND

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppby	Run 1 Background Sample - Amount Detected, mg/m³	Run 2 Background Sample - Amount Detected, ug/m³ or ppby	Run 2 Background Sample - Amount Detected, mg/m³	Average Background Concentration - Run 1-2, mg/m ³
1,1,2-Trichloro-1,2,2-	7					
trifluoroethane	188.0	0.11	8.593E-04	0.10	7.990E-04	8.291E-04
1,1-Dichloroethane	99.0	ND	ND	ND	ND	ND
1,2-Dichloroethene	97.0	ND	ND	ND	ND	ND
Chloroform	119.0	ND .	ND	ND	ND	ND
1,2-Dichloroethane	99.0	ND	ND	ND	ND	ND
Methylchloroform	133.0	0.07	3.795E-04	0.06	3.328E-04	3.562E-04
Benzene	78.0	0.34	1.119E-03	1.60	5.187E-03	3.153E-03
Carbontetrachloride	154.0	0.13	8.153E-04	0.11	7.023E-04	7.588E-04
1,2-Dichloropropane	113.0	ND	ND	ND	ND	ND
Trichloroethylene	133.0	ND	ND	ND	ND	ND
cis 1,3-Dichloro-1-propene	111.0	ND	ND	ND	ND	ND
trans 1,3-Dichloro-1-propene	111.0	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	133.0	ND	ND	ND	ND	ND
Toluene	92.0	0.58	2.238E-03	9.46	3.621E-02	1.922E-02
1,2-Dibromoethane	188.0	ND	ND	ND	ND	ND
Perchloroethylene	166.0	ND	ND	ND	ND	ND
Chlorobenzene	113.0	ND	ND	ND	ND	ND
Ethylbenzene	160.0	0.07	4.606E-04	1.80	1.198E-02	6.218E-03
m&p-Xylene	106.0	0.20	9.025E-04	7.40	3.263E-02	1.677E-02
Styrene	104.0	ND	ND	0.06	2.439E-04	2.439E-04
1,1,2,2-Tetrachloroethane	168.0	ND	ND	ND	ND	ND 0.555F-00
o-Xylene	106.0	0.09	4.068E-04	4.11	1.810E-02	9.256E-03
p-Ethyltoluene	120.0	ND ND	ND ND	3.35	1.673E-02	1.673E-02
1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene	120.0 120.0	0.07	3.690E-04	1.53 6.01	7.637E-03 3.000E-02	7.637E-03 1.519E-02
Benzylchloride	127.0	ND	3.690E-04 ND	ND	3.000E-02	ND
m-Dichlorobenzene	147.0	ND ND	ND ND	ND ND	ND ND	ND ND
p-Dichlorobenzene	147.0	ND ND	ND ND	ND ND	ND ND	ND
o-Dichlorobenzene	147.0	ND ND	ND ND	ND	ND	ND
1,2,4-Trichlorobenzene	181.0	ND	ND	ND	ND	ND ND
Hexachlorobutadiene	261.0	ND	ND	ND	ND	ND
Phenylacetylene	102.0	ND	ND	0.16	6.579E-04	6.579E-04
Indane	118.0	ND	ND	1.27	6.217E-03	6.217E-03
2,3-Dihydro-1-methyl-1H-indene	132.0	ND	ND	0.68	3.747E-03	3.747E-03
2,3-Dihydro-4-methyl-1H-indene	132.0	ND	ND	0.89	4.893E-03	4.893E-03
Naphthalene	128.0	ND	ND	1.47	7.803E-03	7.803E-03
2-Methylnaphthalene	142.0	ND	ND	0.48	2.818E-03	2.818E-03
1-Methylnaphthalene	142.0	ND	ND	0.19	1.102E-03	1.102E-03
Cyanogen	52	ND	ND	ND	ND	ND
Methylnitrite	61.0	ND	ND	ND	ND	ND
Acetonitrile	41.0	ND	ND	ND	ND	ND
Acrylonitrile	53.0	ND	ND	ND	ND	ND
Nitromethane	61.0	0.33	8.363E-04	ND	ND	8.363E-04
Propanenitrile	55.0	ND	ND	ND	ND	ND
2-Methylpropanenitrile	69.0	ND	ND	ND	ND	ND

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppby	Run 1 Background Sample - Amount Detected, mg/m³	Run 2 Background Sample - Amount Detected, ug/m ³ or ppby	Run 2 Background Sample - Amount Detected, mg/m ³	Average Background Concentration - Run 1-2, mg/m ³
Pentanenitrile	83.0	ND	ND	ND	ND	ND
Hexanenitrile	97.0	ND	ND	ND	ND	ND
Benzonitrile	103.0	ND	ND	ND	ND	ND
2-Nitrophenol	139.0	ND	ND	ND	ND	ND
Acrolein	56.0	ND	ND	ND	ND	ND
Acetone	56.0	1.61	3.761E-03	2.82	6.577E-03	5.169E-03
1-Hydroxy-2-propanone	74.0	ND	ND	ND	ND	ND
Furan	68.0	ND	ND	ND	ND	ND
2-Propanol	60.0	ND	ND	ND	ND	ND
2-Methylpropanal	74.0	ND	ND	ND	ND	ND
1-Propanol	60.0	ND	ND	ND	ND	ND
Methacrolein	70.0	ND	ND	ND	ND	ND
Methyl-vinyl Ketone	70.0	ND	ND	ND	ND	ND
MTBE	88.0	0.19	6.867E-04	1.00	3.675E-03	2.181E-03
2,3-Butanedione	86.0	ND	ND	ND	ND	ND
Butanal	72.0	0.09	2.764E-04	0.07	2.138E-04	2.451E-04
2-Butanone	72.0	0.26	7.666E-04	0.25	7.549E-04	7.607E-04
2-Methyl-1,3-dioxolane	88.0	ND	ND	ND	ND	ND
2-Methylfuran	82.0	ND	ND	ND	ND	ND
Tetrahydrofuran	72.0	ND	ND	ND	ND	ND
trans-2-Butenal	70.0	ND	ND	ND	ND	ND
Acetic Acid	60.0	0.42	1.057E-03	0.88	2.198E-03	1.627E-03
1-Butanol	74.0	ND	ND	ND	ND	ND
2-Pentanone	86.0	ND	ND	ND	ND	ND
Pentanal	86.0	0.35	1.240E-03	0.30	1.078E-03	1.159E-03
1,4-Dioxane	88.0	ND	ND	ND	ND	ND
Methyl Methacrylate	100.0	ND	ND	ND	ND	ND
Cyclopentanone	84.0	ND	ND	ND	ND	ND
Hexanal	100.0	0.24	9.786E-04	0.31	1.307E-03	1.143E-03
2-Furaldehyde	96.0	ND	ND	ND	ND	ND
Cyclohexanone	98.0	ND	ND	ND	ND	ND
Heptanal	114.0	0.20	9.400E-04	0.23	1.114E-03	1.027E-03
2-Butoxyethanol	118.0	ND	ND	ND	ND	ND
Benzaldehyde	106.0	0.35	1.535E-03	0.50	2.201E-03	1.868E-03
6-Methyl-5-hepten-2-one	126.0	0.13	6.854E-04	ND	ND ND	6.854E-04
Octanal	128.0	0.38	2.034E-03	0.50	2.664E-03	2.349E-03
Benzofuran	118.0	ND	ND	ND	ND	ND
2-Ethyl-1-hexanol	120.0	ND	ND	ND	ND	ND ND
Acetophonone	120.0	ND	ND	ND	ND	ND
Nonanal	142.0	0.55	3.225E-03	0.83	4.928E-03	4.077E-03
Decanal	156.0	0.25	1.629E-03	0.51	3.296E-03	2.462E-03
Carbonyl Sulfide	60.0	0.11	2.742E-04	0.11	2.621E-04	2.681E-04
Carbon Disulfide	76.0	0.19	5.880E-04	0.19	5.883E-04	5.882E-04
Thiophene	84.0	ND	ND	ND	ND	ND
Dimethyldisulfide	94.0	ND	ND	ND	ND	ND ,

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppbv	Detection Limit -Amount Detected, mg/m ³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
TNMHC		0.1	1.000E-04	1.000E-04	1.000E-04
Ethane	30	0.1	1.000E-04	1.000E-04	1.000E-04
Ethylene	28	0.1	1.000E-04	1.000E-04	1.000E-04
Acetylene	26	0.1	1.000E-04	1.000E-04	1.000E-04
Propane	44	0.1	1.000E-04	1.000E-04	1.000E-04
Propene	42	0.1	1.000E-04	1.000E-04	1.000E-04
i-Butane	58	0.1	1.000E-04	1.000E-04	1.000E-04
i-Butane i-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
1-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
1,3-Butadiene	54	0.1	1.000E-04		
n-Butane	58	0.1	1.000E-04	1.000E-04	1.000E-04
trans-2-Butene	56	0.1	1.000E-04	1.000E-04 1.000E-04	1.000E-04
2,2-Dimethylpropane	72	0.1	1.000E-04		1.000E-04
cis-2-Butene	56	0.1		1.000E-04	1.000E-04
	70	0.1	1.000E-04	1.000E-04	1.000E-04
3-Methyl-1-butene i-Pentane			1.000E-04	1.000E-04	1.000E-04
	72	0.1	1.000E-04	1.000E-04	1.000E-04
1-Pentene	70 70	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-1-butene n-Pentane	70	0.1	1.000E-04	1.000E-04	1.000E-04
		0.1	1.000E-04	1.000E-04	1.000E-04
Isoprene trans-2-Pentene	68 70	0.1	1.000E-04	1.000E-04	1.000E-04
		0.1	1.000E-04	1.000E-04	1.000E-04
cis-2-Pentene	70 70	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-2-butene		0.1	1.000E-04	1.000E-04	1.000E-04
2,2-Dimethylbutane	86	0.1	1.000E-04	1.000E-04	1.000E-04
Cyclopentene	68 84	0.1	1.000E-04	1.000E-04	1.000E-04
4-Methyl-1-pentene	70	0.1	1.000E-04	1.000E-04	1.000E-04
Cyclopentane		0.1	1.000E-04	1.000E-04	1.000E-04
2,3-Dimethylbutane cis-4-Methyl-2-pentene	86	0.1	1.000E-04	1.000E-04	1.000E-04
	84	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methylpentane	86	0.1	1.000E-04	1.000E-04	1.000E-04
3-Methylpentane	86	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-1-pentene	84	0.1	1.000E-04	1.000E-04	1.000E-04
1-Hexene	84	0.1	1.000E-04	1.000E-04	1.000E-04
n-Hexane	86	0.1	1.000E-04	1.000E-04	1.000E-04
trans-2-Hexene	84	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-2-pentene	84	0.1	1.000E-04	1.000E-04	1.000E-04
cis-2-Hexene	84	0.1	1.000E-04	1.000E-04	1.000E-04
Methylcyclopentane	84	0.1	1.000E-04	1.000E-04	1.000E-04
2,4-Dimethylpentane	100	0.1	1.000E-04	1.000E-04	1.000E-04
Benzene	78	0.1	1.000E-04	1.000E-04	1.000E-04
Cyclohexane	84	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methylhexane	100	0.1	1.000E-04	1.000E-04	1.000E-04

TABLE E-6. AEC - RUN NO. 1-2 FA TEST (28 MARCH 1998)

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppbv	Detection Limit -Amount Detected, mg/m ³	Concentration, mg/m ³	Average Minimum Detection Limit - Concentration, mg/m³
2,3-Dimethylpentane	100	0.1	1.000E-04	1.000E-04	1.000E-04
3-Methylhexane	100	0.1	1.000E-04	1.000E-04	1.000E-04
2,2,4-Trimethylpentane	114	0.1	1.000E-04	1.000E-04	1.000E-04
n-Heptane	100	0.1	1.000E-04	1.000E-04	1.000E-04
2,4,4-Trimethyl-1-pentene	112	0.1	1.000E-04	1.000E-04	1.000E-04
Methylcyclohexane	98	0.1	1.000E-04	1.000E-04	1.000E-04
2,4,4-Trimethyl-2-pentene	112	0.1	1.000E-04	1.000E-04	1.000E-04
2,5-Dimethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2,4-Dimethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2,3,4-Trimethylpentane	114	0.1	1.000E-04	1.000E-04	1.000E-04
Toluene	92	0.1	1.000E-04	1.000E-04	1.000E-04
2,3-Dimethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methylheptane	111	0.1	1.000E-04	1.000E-04	1.000E-04
3-Ethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2,2-Dimethylheptane	128	0.1	1.000E-04	1.000E-04	1.000E-04
2,2,4-Trimethylhexane	128	0.1	1.000E-04	1.000E-04	1.000E-04
n-Octane	114	0.1	1.000E-04	1.000E-04	1.000E-04
Ethylcyclohexane	112	0.1	1.000E-04	1.000E-04	1.000E-04
Ethylbenzene	160	0.1	1.000E-04	1.000E-04	1.000E-04
m-Xylene & p-Xylene	106	0.1	1.000E-04	1.000E-04	1.000E-04
Styrene	104	0.1	1.000E-04	1.000E-04	1.000E-04
o-Xylene	106	0.1	1.000E-04	1.000E-04	1.000E-04
n-Nonane	128	0.1	1.000E-04	1.000E-04	1.000E-04
i-Propylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
n-Propylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
p-Ethyltoluene	120	0.1	1.000E-04	1.000E-04	1.000E-04
m-Ethyltoluene	120	0.1	1.000E-04	1.000E-04	1.000E-04
1,3,5-Trimethylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
o-Ethyltoluene	120	0.1	1.000E-04	1.000E-04	1.000E-04
1,2,4-Trimethylbenzene & sec-					
Butylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
n-Decane	142	0.1	1.000E-04	1.000E-04	1.000E-04
alpha-Pinene	136	0.1	1.000E-04	1.000E-04	1.000E-04
beta-Pinene	136	0.1	1.000E-04	1.000E-04	1.000E-04
delta 3-Carene	136	0.1	1.000E-04	1.000E-04	1.000E-04
d-Limonene	136	0.1	1.000E-04	1.000E-04	1.000E-04
MTBE	88	0.1	1.000E-04	1.000E-04	1.000E-04
ETBE	102.0	0.1	1.000E-04	1.000E-04	1.000E-04
Dichlorodifluoromethane	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Methylchloride	50.0	0.1	2.080E-04	2.080E-04	2.080E-04
Dichlorotetrafluoroethane	171.0	0.1	7.114E-04	7.114E-04	7.114E-04
Chloroethene	63.0	0.1	2.621E-04	2.621E-04	2.621E-04

Commission of the Commission o	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppbv	Detection Limit -Amount - Detected, mg/m ³	Average Maximum Detection Limit - Concentration, mg/m ³	Average Minimum Detection Limit - Concentration, mg/m ³
1,3-Butadiene	54.0	0.1	2.246E-04	2.246E-04	2.246E-04
Methylbromide	95.0	0.1	3.952E-04	3.952E-04	3.952E-04
Ethylchloride	64.5	0.1	2.683E-04	2.683E-04	2.683E-04
Trichloromonofluoromethane	137.0	0.1	5.699E-04	5.699E-04	5.699E-04
Vinylidenechloride	97.0	0.1	4.035E-04	4.035E-04	4.035E-04
Methylenechloride	85.0	0.1	3.536E-04	3.536E-04	3.536E-04
Allylchloride	76.5	0.1	3.182E-04	3.182E-04	3.182E-04
1,1,2-Trichloro-1,2,2-					
trifluoroethane	188.0	0.1	7.821E-04	7.821E-04	7.821E-04
1,1-Dichloroethane	99.0	0.1	4.118E-04	4.118E-04	4.118E-04
1,2-Dichloroethene	97.0	0.1	4.035E-04	4.035E-04	4.035E-04
Chloroform	119.0	0.1	4.950E-04	4.950E-04	4.950E-04
1,2-Dichloroethane	99.0	0.1	4.118E-04	4.118E-04	4.118E-04
Methylchloroform	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
Benzene	78.0	0.1	3.245E-04	3.245E-04	3.245E-04
Carbontetrachloride	154.0	0.1	6.406E-04	6.406E-04	6.406E-04
1,2-Dichloropropane	113.0	0.1	4.701E-04	4.701E-04	4.701E-04
Trichloroethylene	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
cis 1,3-Dichloro-1-propene	111.0	0.1	4.618E-04	4.618E-04	4.618E-04
trans 1,3-Dichloro-1-propene	111.0	0.1	4.618E-04	4.618E-04	4.618E-04
1,1,2-Trichloroethane	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
Toluene	92.0	0.1	3.827E-04	3.827E-04	3.827E-04
1,2-Dibromoethane	188.0	0.1	7.821E-04	7.821E-04	7.821E-04
Perchloroethylene	166.0	0.1	6.906E-04	6.906E-04	6.906E-04
Chlorobenzene	113.0	0.1	4.701E-04	4.701E-04	4.701E-04
Ethylbenzene	160.0	0.1	6.656E-04	6.656E-04	6.656E-04
m&p-Xylene	106.0	0.1	4.410E-04	4.410E-04	4.410E-04
Styrene	104.0	0.1	4.326E-04	4.326E-04	4.326E-04
1,1,2,2-Tetrachloroethane	168.0	0.1	6.989E-04	6.989E-04	6.989E-04
o-Xylene	106.0	0.1	4.410E-04	4.410E-04	4.410E-04
p-Ethyltoluene	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
1,3,5-Trimethylbenzene	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
1,2,4-Trimethylbenzene	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Benzylchloride	127.0	0.1	5.283E-04	5.283E-04	5.283E-04
m-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04	6.115E-04
p-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04	6.115E-04
o-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04	6.115E-04
1,2,4-Trichlorobenzene	181.0	0.1	7.530E-04	7.530E-04	7.530E-04
Hexachlorobutadiene	261.0	0.1	1.086E-03	1.086E-03	1.086E-03
Phenylacetylene	102.0	0.1	4.243E-04	4.243E-04	4.243E-04
Indane	118.0	0.1	4.909E-04	4.909E-04	4.909E-04
2,3-Dihydro-1-methyl-1H-indene	132.0	0.1	5.491E-04	5.491E-04	5.491E-04

TABLE E-6. AEC - RUN NO. 1-2 FA TEST (28 MARCH 1998)

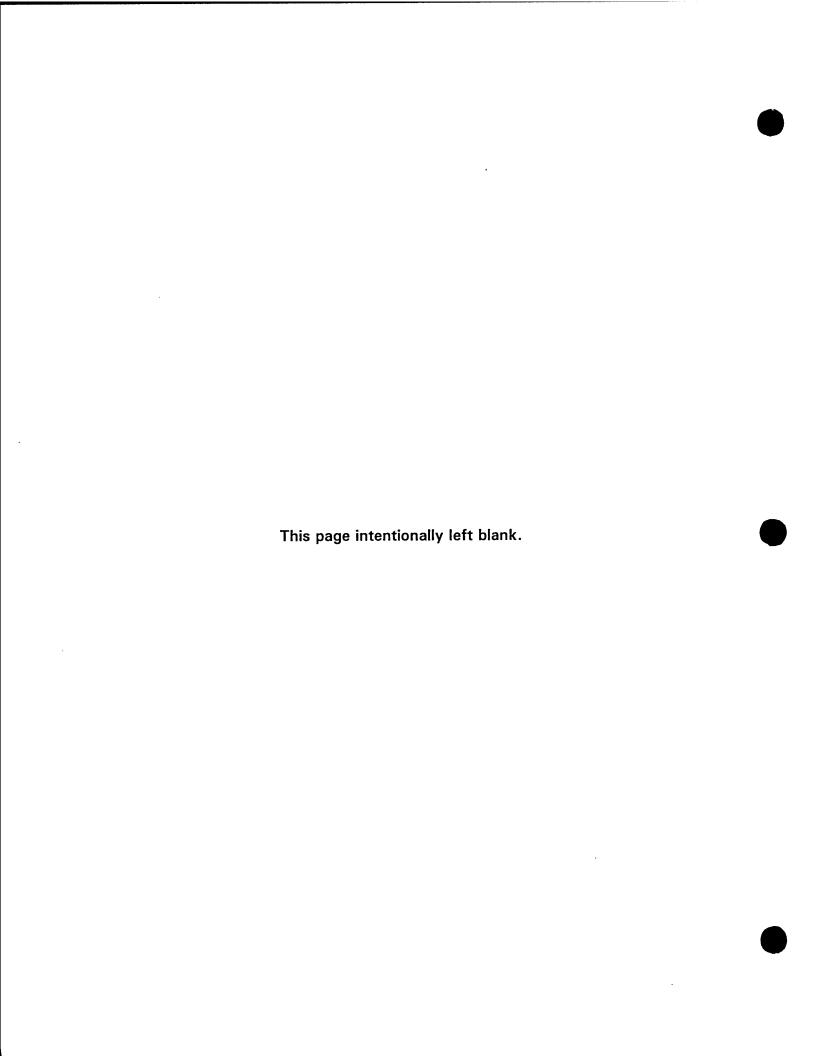
			,		
		Detection			
		Limit -			
		Amount	Detection	Average Maximum	Average Minimum
		Detected,	Limit -Amount	Detection Limit -	Detection Limit -
	Molecular	ug/m³ or	Detected,	Concentration,	Concentration,
Analyte	Weight	ppbv	mg/m³	mg/m³	mg/m³
2,3-Dihydro-4-methyl-1H-indene	132.0	0.1	5.491E-04	5.491E-04	5.491E-04
Naphthalene	128.0	0.1	5.325E-04	5.325E-04	5.325E-04
2-Methylnaphthalene	142.0	0.1	5.907E-04	5.907E-04	5.907E-04
1-Methylnaphthalene	142.0	0.1	5.907E-04	5.907E-04	5.907E-04
	52	0.1	2.163E-04	2.163E-04	2.163E-04
Cyanogen Methylnitrite	61.0	0.1	2.538E-04	2.538E-04	2.538E-04
Acetonitrile	41.0	0.1	1.706E-04	1.706E-04	1.706E-04
	53.0	0.1	2.205E-04	2.205E-04	2.205E-04
Acrylonitrile Nitromethane	61.0	0.1	2.538E-04	2.538E-04	2.538E-04
Propanenitrile	55.0	0.1	2.288E-04	2.288E-04	2.288E-04
	69.0	0.1	2.870E-04	2.870E-04	2.870E-04
2-Methylpropanenitrile Pentanenitrile	83.0	0.1	3.453E-04	3.453E-04	3.453E-04
Hexanenitrile	97.0	0.1	4.035E-04	4.035E-04	4.035E-04
Benzonitrile	103.0	0.1	4.285E-04	4.285E-04	4.285E-04
2-Nitrophenol	139.0	0.1	5.782E-04	5.782E-04	5.782E-04
Acrolein	56.0	0.1	2.330E-04	2.330E-04	2.330E-04
Acetone	56.0	0.1	2.330E-04	2.330E-04	2.330E-04
1-Hydroxy-2-propanone	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
Furan	68.0	0.1	2.829E-04	2.829E-04	2.829E-04
2-Propanol	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
2-Methylpropanal	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
1-Propanol	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
Methacrolein	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
Methyl-vinyl Ketone	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
MTBE	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
2,3-Butanedione	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
Butanal	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
2-Butanone	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
2-Methyl-1,3-dioxolane	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
2-Methylfuran	82.0	0.1	3.411E-04	3.411E-04	3.411E-04
Tetrahydrofuran	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
trans-2-Butenal	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
Acetic Acid	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
1-Butanol	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
2-Pentanone	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
Pentanal	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
1,4-Dioxane	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
Methyl Methacrylate	100.0	0.1	4.160E-04	4.160E-04	4.160E-04
Cyclopentanone	84.0	0.1	3.494E-04	3.494E-04	3.494E-04
Hexanal	100.0	0.1	4.160E-04	4.160E-04	4.160E-04
2-Furaldehyde	96.0	0.1	3.994E-04	3.994E-04	3.994E-04
Cyclohexanone	98.0	0.1	4.077E-04	4.077E-04	4.077E-04

TABLE E-6. AEC - RUN NO. 1-2 FA TEST (28 MARCH 1998)

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppbv	Detection Limit -Amount Detected, mg/m³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
Heptanal	114.0	0.1	4.742E-04	4.742E-04	4.742E-04
2-Butoxyethanol	118.0	0.1	4.909E-04	4.909E-04	4.909E-04
Benzaldehyde	106.0	0.1	4.410E-04	4.410E-04	4.410E-04
6-Methyl-5-hepten-2-one	126.0	0.1	5.242E-04	5.242E-04	5.242E-04
Octanal	128.0	0.1	5.325E-04	5.325E-04	5.325E-04
Benzofuran	118.0	0.1	4.909E-04	4.909E-04	4.909E-04
2-Ethyl-1-hexanol	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Acetophonone	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Nonanal	142.0	0.1	5.907E-04	5.907E-04	5.907E-04
Decanal	156.0	0.1	6.490E-04	6.490E-04	6.490E-04
Carbonyl Sulfide	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
Carbon Disulfide	76.0	0.1	3.162E-04	3.162E-04	3.162E-04
Thiophene	84.0	0.1	3.494E-04	3.494E-04	3.494E-04
Dimethyldisulfide	94.0	0.1	3.910E-04	3.910E-04	3.910E-04

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SIMULATOR HAND GRENADE



Analyte	Run 1 Sample 1 - Amount Detected, ug/m³	Run 1 Sample 1 - Amount Detected, mg/m³	Run 1 Sample 2 - Amount Detected, ug/m³	Run 1 Sample 2 - Amount Detected, mg/m³	Average Concentration - Run 1, mg/m ³
TNMHC	64.30	6.430E-02	ND	ND	6.430E-02
Ethane	5.00	5.000E-03	ND	ND	5.000E-03
Ethylene	8.30	8.300E-03	ND	ND	8.300E-03
Acetylene	9.00	9.000E-03	ND	ND	9.000E-03
Propane	2.20	2.200E-03	ND	ND	2.200E-03
Propene	2.90	2.900E-03	ND	ND	2.900E-03
i-Butane	0.30	3.000E-04	ND	ND	3.000E-04
i-Butene	0.20	2.000E-04	ND	ND	2.000E-04
1-Butene	0.40	4.000E-04	ND	ND	4.000E-04
1,3-Butadiene	0.20	2.000E-04	ND	ND	2.000E-04
n-Butane	0.80	8.000E-04	ND	ND	8.000E-04
trans-2-Butene	0.50	5.000E-04	ND	ND	5.000E-04
2,2-Dimethylpropane	ND	ND	ND	ND	ND
cis-2-Butene	0.10	1.000E-04	ND	ND	1.000E-04
3-Methyl-1-butene	ND	ND	ND	ND	ND
i-Pentane	0.50	5.000E-04	ND	ND	5.000E-04
1-Pentene	ND	ND	ND	ND	ND
2-Methyl-1-butene	ND	ND	ND	ND	ND
n-Pentane	0.30	3.000E-04	ND	ND	3.000E-04
Isoprene	ND	ND	ND	ND	ND
trans-2-Pentene	ND	ND	ND	ND	ND
cis-2-Pentene	ND	ND	ND	ND	ND
2-Methyl-2-butene	ND	ND	ND	ND	ND
2,2-Dimethylbutane	ND	ND	ND	ND	ND
Cyclopentene	ND	ND	ND	ND	ND
4-Methyl-1-pentene	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND
2,3-Dimethylbutane	ND	ND	ND	ND	ND
cis-4-Methyl-2-pentene	ND	ND	ND	ND	ND
2-Methylpentane	0.20	2.000E-04	ND	ND	2.000E-04
3-Methylpentane	ND	ND	ND	ND	ND
2-Methyl-1-pentene	ND	ND	ND	ND	ND
1-Hexene	ND	ND	ND	ND	ND
n-Hexane	0.20	2.000E-04	ND	ND	2.000E-04
trans-2-Hexene	ND	ND	ND	ND	ND
2-Methyl-2-pentene	ND	ND	ND	ND	ND
cis-2-Hexene	ND	ND	ND	ND	ND
Methylcyclopentane	0.10	1.000E-04	ND	ND	1.000E-04
2,4-Dimethylpentane	0.10	1.000E-04	ND	ND	1.000E-04
Benzene	2.10	2.100E-03	ND	ND	2.100E-03
-	# A 4000	·			. :-

TABLE E-1. AEC - RUN NO. 1 HG TEST (30 MARCH 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ug/m ³	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ug/m³	Run 1 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 1, mg/m³
Cyclohexane	ND	ND	ND	ND	ND
2-Methylhexane	ND	ND	ND	ND	ND
2,3-Dimethylpentane	ND	ND	ND	ND	ND
3-Methylhexane	ND	ND	ND	ND	ND
2,2,4-Trimethylpentane	0.50	5.000E-04	ND	ND	5.000E-04
n-Heptane	ND	ND	ND	ND	ND
2,4,4-Trimethyl-1-pentene	ND	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND	ND
2,4,4-Trimethyl-2-pentene	ND	ND	ND	ND	ND
2,5-Dimethylhexane	ND	ND	ND	ND	ND
2,4-Dimethylhexane	ND	ND	ND	ND	ND
2,3,4-Trimethylpentane	ND	ND	ND	ND	ND
Toluene	1.30	1.300E-03	ND	ND	1.300E-03
2,3-Dimethylhexane	ND	ND	ND	ND	ND
2-Methylheptane	ND	ND	ND	ND	ND
3-Ethylhexane	ND	ND	ND	ND	ND
2,2-Dimethylheptane	ND	ND	ND	ND	ND
2,2,4-Trimethylhexane	ND	ND	ND	ND	ND
n-Octane	0.10	1.000E-04	ND	ND	1.000E-04
Ethylcyclohexane	ND	ND	ND	ND	ND
Ethylbenzene	0.30	3.000E-04	ND	ND	3.000E-04
m-Xylene & p-Xylene	0.80	8.000E-04	ND	ND	8.000E-04
Styrene	0.40	4.000E-04	ND	ND	4.000E-04
o-Xylene	0.40	4.000E-04	ND	ND	4.000E-04
n-Nonane	0.20	2.000E-04	ND	ND	2.000E-04
i-Propylbenzene	ND	ND	ND	ND	ND
n-Propylbenzene	0.10	1.000E-04	ND	ND	1.000E-04
p-Ethyltoluene	0.50	5.000E-04	ND	ND	5.000E-04
m-Ethyltoluene	0.30	3.000E-04	ND	ND	3.000E-04
1,3,5-Trimethylbenzene	0.40	4.000E-04	ND	ND	4.000E-04
o-Ethyltoluene	0.40	4.000E-04	ND	ND	4.000E-04
1,2,4-Trimethylbenzene & sec-					
Butylbenzene	0.90	9.000E-04	ND	ND	9.000E-04
n-Decane	0.20	2.000E-04	. ND	ND	2.000E-04
alpha-Pinene	ND	ND	ND	ND	ND
beta-Pinene	ND	ND	ND	ND	ND
delta 3-Carene	ND	ND	ND	ND	ND
d-Limonene	ND	ND	ND	ND	ND
MTBE	ND	ND	ND	ND	ND
ETBE	ND	ND	ND	ND	ND

TABLE E-2. AEC - RUN NO. 1 HG TEST (30 MARCH 1998)

Dichlorodifluoromethane Methylchloride Dichlorotetrafluoroethane Chloroethene 1,3-Butadiene Methylbromide Ethylchloride Trichloromonofluoromethane Vinylidenechloride Methylenechloride Allylchloride 1,1,2-Trichloro-1,2,2- trifluoroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane Methylchloriorm Benzene Carbontetrachloride 1,2-Dichloropropane Trichloroethylene	0.297 ND		ppbv	Detected, mg/m ³	Average Concentration - Run 1, ppbv
Methylchloride Dichlorotetrafluoroethane Chloroethene 1,3-Butadiene Methylbromide Ethylchloride Trichloromonofluoromethane Vinylidenechloride Methylenechloride Allylchloride 1,1,2-Trichloro-1,2,2- trifluoroethane 1,1-Dichloroethane 1,2-Dichloroethane Chloroform 1,2-Dichloroethane Methylchloroform Benzene Carbontetrachloride 1,2-Dichloropropane	ND		ND		2.974E-01
Dichlorotetrafluoroethane Chloroethene 1,3-Butadiene Methylbromide Ethylchloride Trichloromonofluoromethane Vinylidenechloride Methylenechloride Allylchloride 1,1,2-Trichloro-1,2,2- trifluoroethane 1,1-Dichloroethane 1,2-Dichloroethene Chloroform 1,2-Dichloroethane Methylchloroform Benzene Carbontetrachloride 1,2-Dichloropropane			ND	_	ND
Chloroethene 1,3-Butadiene Methylbromide Ethylchloride Trichloromonofluoromethane Vinylidenechloride Methylenechloride Allylchloride 1,1,2-Trichloro-1,2,2- trifluoroethane 1,1-Dichloroethane 1,2-Dichloroethene Chloroform 1,2-Dichloroethane Methylchloroform Benzene Carbontetrachloride 1,2-Dichloropropane	ND	_	ND	-	ND ND
1,3-Butadiene Methylbromide Ethylchloride Trichloromonofluoromethane Vinylidenechloride Methylenechloride Allylchloride 1,1,2-Trichloro-1,2,2- trifluoroethane 1,1-Dichloroethane 1,2-Dichloroethene Chloroform 1,2-Dichloroethane Methylchloroform Benzene Carbontetrachloride 1,2-Dichloropropane	ND	-	ND	-	ND ND
Methylbromide Ethylchloride Trichloromonofluoromethane Vinylidenechloride Methylenechloride Allylchloride 1,1,2-Trichloro-1,2,2- trifluoroethane 1,1-Dichloroethane 1,2-Dichloroethane Chloroform 1,2-Dichloroethane Methylchloroform Benzene Carbontetrachloride 1,2-Dichloropropane	0.091	_	ND		9.056E-02
Ethylchloride Trichloromonofluoromethane Vinylidenechloride Methylenechloride Allylchloride 1,1,2-Trichloro-1,2,2- trifluoroethane 1,1-Dichloroethane 1,2-Dichloroethene Chloroform 1,2-Dichloroethane Methylchloroform Benzene Carbontetrachloride 1,2-Dichloropropane	ND	_	ND		9.030L-02 ND
Trichloromonofluoromethane Vinylidenechloride Methylenechloride Allylchloride 1,1,2-Trichloro-1,2,2- trifluoroethane 1,1-Dichloroethane 1,2-Dichloroethene Chloroform 1,2-Dichloroethane Methylchloroform Benzene Carbontetrachloride 1,2-Dichloropropane	ND		ND		ND ND
Vinylidenechloride Methylenechloride Allylchloride 1,1,2-Trichloro-1,2,2- trifluoroethane 1,1-Dichloroethane 1,2-Dichloroethene Chloroform 1,2-Dichloroethane Methylchloroform Benzene Carbontetrachloride 1,2-Dichloropropane	0.427		ND ND	-	4.272E-01
Methylenechloride Allylchloride 1,1,2-Trichloro-1,2,2- trifluoroethane 1,1-Dichloroethane 1,2-Dichloroethene Chloroform 1,2-Dichloroethane Methylchloroform Benzene Carbontetrachloride 1,2-Dichloropropane	ND	_	ND ND	-	4.272E-01 ND
Allylchloride 1,1,2-Trichloro-1,2,2- trifluoroethane 1,1-Dichloroethane 1,2-Dichloroethene Chloroform 1,2-Dichloroethane Methylchloroform Benzene Carbontetrachloride 1,2-Dichloropropane	2.552	_	ND ND	-	2.552E+00
1,1,2-Trichloro-1,2,2- trifluoroethane 1,1-Dichloroethane 1,2-Dichloroethene Chloroform 1,2-Dichloroethane Methylchloroform Benzene Carbontetrachloride 1,2-Dichloropropane	ND		ND ND		2.552E+00 ND
1,1-Dichloroethane 1,2-Dichloroethene Chloroform 1,2-Dichloroethane Methylchloroform Benzene Carbontetrachloride 1,2-Dichloropropane					
1,2-Dichloroethene Chloroform 1,2-Dichloroethane Methylchloroform Benzene Carbontetrachloride 1,2-Dichloropropane	0.097	-	ND	-	9.684E-02
Chloroform 1,2-Dichloroethane Methylchloroform Benzene Carbontetrachloride 1,2-Dichloropropane	ND	-	ND	-	ND
1,2-Dichloroethane Methylchloroform Benzene Carbontetrachloride 1,2-Dichloropropane	ND	-	ND	-	ND
Methylchloroform Benzene Carbontetrachloride 1,2-Dichloropropane	ND	-	ND	-	ND
Benzene Carbontetrachloride 1,2-Dichloropropane	ND	-	ND	-	ND
Carbontetrachloride 1,2-Dichloropropane	0.063	-	ND	-	6.326E-02
1,2-Dichloropropane	0.658	-	ND	-	6.583E-01
	0.116	-	ND	-	1.160E-01
Trichloroothylono	ND	-	ND	-	ND
	ND	-	ND	-	ND
cis 1,3-Dichloro-1-propene	ND	-	ND	-	ND
trans 1,3-Dichloro-1-propene	ND	-	ND	-	ND
1,1,2-Trichloroethane	ND	-	ND .	-	ND
Toluene	0.345	-	ND	-	3.455E-01
1,2-Dibromoethane	ND	-	ND		ND
Perchloroethylene	ND	•	ND	-	ND
Chlorobenzene	ND	-	ND	-	ND
Ethylbenzene	0.069	-	ND	-	6.920E-02
m&p-Xylene	0.220	-	ND	-	2.203E-01
Styrene	ND	-	ND	-	ND
1,1,2,2-Tetrachloroethane	ND	-	ND	-	ND
o-Xylene	0.092	-	ND	-	9.226E-02
p-Ethyltoluene	0.062		ND	•	6.230E-02
1,3,5-Trimethylbenzene	ND	-	ND	-	ND
1,2,4-Trimethylbenzene	0.155	-	ND	-	1.546E-01
Benzylchloride	ND	-	ND	-	ND
m-Dichlorobenzene	ND	-	ND	_	ND
p-Dichlorobenzene	ND	_	ND	-	ND

TABLE E-2. AEC - RUN NO. 1 HG TEST (30 MARCH 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ppbv	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ppbv	Run 1 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 1, ppbv
o-Dichlorobenzene	ND	-	ND	-	ND
1,2,4-Trichlorobenzene	ND	-	ND	-	ND
Hexachlorobutadiene	ND	-	ND	-	ND
Phenylacetylene	ND	-	ND	-	ND
Indane	ND	-	ND	-	ND
2,3-Dihydro-1-methyl-1H-indene	ND	-	ND	-	ND
2,3-Dihydro-4-methyl-1H-indene	ND	_	ND	-	ND
Naphthalene	0.184	-	ND	-	1.842E-01
2-Methylnaphthalene	ND	-	ND	-	ND
1-Methylnaphthalene	ND	-	ND	-	ND
Cyanogen	ND	-	ND	•	ND
Methylnitrite	0.419	-	ND	-	4.186E-01
Acetonitrile	0.052	-	ND	-	5.232E-02
Acrylonitrile	0.443	-	ND	-	4.432E-01
Nitromethane	0.409	-	ND	-	4.088E-01
Propanenitrile	ND	-	ND	-	ND
2-Methylpropanenitrile	ND	-	ND	-	ND
Pentanenitrile	ND	-	ND	-	ND
Hexanenitrile	ND	-	ND	-	ND
Benzonitrile	ND	-	ND	-	ND
2-Nitrophenol	ND	-	ND	-	ND ND
Acrolein	0.852	<u> </u>	ND	-	8.521E-01
Acetone	2.649	-	ND	-	2.649E+00
1-Hydroxy-2-propanone	1.565	-	ND	-	1.565E+00
Furan	0.118	-	ND ND	-	1.181E-01
2-Propanol	ND	-	ND ND	-	ND ND
2-Methylpropanal	ND ND	-	ND ND	-	ND ND
1-Propanol Methacrolein	ND ND	-	ND ND	•	ND ND
Methyl-vinyl Ketone	0.098		ND ND		9.775E-02
MTBE	ND		ND		9.775L-02 ND
2,3-Butanedione	ND ND	_	ND	_	ND ND
Butanal	0.088		ND	-	8.806E-02
2-Butanone	0.088	-	ND	-	4.414E-01
2-Methyl-1,3-dioxolane	ND	-	ND ND	-	ND
2-Methylfuran	ND ND	-	ND		ND ND
Tetrahydrofuran	ND ND	_	ND	<u> </u>	ND ND
trans-2-Butenal	0.097	-	ND		9.713E-02
Acetic Acid	0.888	-	ND	-	8.882E-01
1-Butanol	ND	-	ND	-	ND

TABLE E-2. AEC - RUN NO. 1 HG TEST (30 MARCH 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ppby	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ppbv	Run 1 Sample 2 - Amount Detected, mg/m³	Average Concentration - Run 1, ppbv
2-Pentanone	ND	-	ND		ND
Pentanal	0.229	-	ND	-	2.289E-01
1,4-Dioxane	ND	-	ND		ND
Methyl Methacrylate	ND	-	ND	-	ND
Cyclopentanone	ND	-	ND	-	ND
Hexanal	0.139	-	ND	-	1.395E-01
2-Furaldehyde	0.410	-	ND	-	4.100E-01
Cyclohexanone	ND	-	ND	-	ND
Heptanal	0.126	-	ND	-	1.258E-01
2-Butoxyethanol	0.141	-	ND	-	1.408E-01
Benzaldehyde	0.488	-	ND	-	4.882E-01
6-Methyl-5-hepten-2-one	ND	-	ND	-	ND
Octanal	0.243	-	ND	-	2.433E-01
Benzofuran	ND	-	ND	-	ND
2-Ethyl-1-hexanol	ND	-	ND	-	ND
Acetophonone	0.074		ND	-	7.361E-02
Nonanal	0.321	-	ND	-	3.206E-01
Decanal	0.298	-	ND	-	2.979E-01
Carbonyl Sulfide	0.172	-	ND	-	1.716E-01
Carbon Disulfide	23.388	_	ND	-	2.339E+01
Thiophene	0.097		ND	-	9.708E-02
Dimethyldisulfide	ND	-	ND	•	ND

TABLE E-3. AEC - RUN NO. 2 HG TEST (30 MARCH 1998)

Analyte	Run 2 Sample 1 - Amount Detected, ug/m ³	Run 2 Sample 1 - Amount Detected, mg/m ³	Run 2 Sample 2 - Amount Detected, ug/m ³	Run 2 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 2, mg/m³
TNMHC	118.90	1.189E-01	ND	ND	1.189E-01
Ethane	6.40	6.400E-03	ND	ND	6,400E-03
Ethylene	17.20	1.720E-02	ND	ND	1.720E-02
Acetylene	16.90	1.690E-02	ND	ND	1.690E-02
Propane	2.60	2.600E-03	ND	ND	2.600E-03
Propene	5.70	5.700E-03	ND	ND	5.700E-03
i-Butane	0.60	6.000E-04	ND	ND	6.000E-04
i-Butene	1.30	1.300E-03	ND	ND	1.300E-03
1-Butene	0.60	6.000E-04	ND ND	ND	6.000E-04
1,3-Butadiene	0.30	3.000E-04	ND	ND ND	3.000E-04
n-Butane	0.90	9.000E-04	ND	ND	9.000E-04
trans-2-Butene	1.00	1.000E-03	ND	ND	1.000E-03
2,2-Dimethylpropane	ND	ND	ND	ND	ND
cis-2-Butene	0.20	2.000E-04	ND	ND	2.000E-04
3-Methyl-1-butene	ND	ND	ND	ND	ND
i-Pentane	0.40	4.000E-04	ND	ND	4.000E-04
1-Pentene	ND	ND	ND	ND	ND
2-Methyl-1-butene	0.10	1.000E-04	ND	ND	1.000E-04
n-Pentane	0.40	4.000E-04	ND	ND	4.000E-04
Isoprene	ND	ND	ND	ND	ND
trans-2-Pentene	ND	ND	ND	ND	ND
cis-2-Pentene	ND	ND	ND	ND	ND
2-Methyl-2-butene	ND	ND	ND	ND	ND
2,2-Dimethylbutane	ND	ND	ND	ND	ND
Cyclopentene	ND	ND	ND	ND	ND
4-Methyl-1-pentene	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND
2,3-Dimethylbutane	ND	ND	ND	ND	ND
cis-4-Methyl-2-pentene	ND	ND	ND	ND	ND
2-Methylpentane	0.20	2.000E-04	ND	ND	2.000E-04
3-Methylpentane	ND	ND	ND	ND	ND
2-Methyl-1-pentene	ND	ND	ND	ND	ND
1-Hexene	ND	ND	ND	ND	ND
n-Hexane	0.20	2.000E-04	ND	ND	2.000E-04
trans-2-Hexene	ND	ND	ND	ND	ND
2-Methyl-2-pentene	ND	ND	ND	ND	ND
cis-2-Hexene	ND	ND	ND	ND	ND
Methylcyclopentane	0.10	1.000E-04	ND	ND	1.000E-04
2,4-Dimethylpentane	0.10	1.000E-04	ND	ND	1.000E-04
Benzene	3.80	3.800E-03	ND	ND	3.800E-03

Analyte	Run 2 Sample 1 - Amount Detected, ug/m³	Run 2 Sample 1 - Amount Detected, mg/m ³	Run 2 Sample 2 - Amount Detected, ug/m³	Run 2 Sample 2 - Amount Detected, mg/m³	Average Concentration - Run 2, mg/m ³
Cyclohexane	ND	ND	ND	ND	ND
2-Methylhexane	ND	ND	ND	ND	ND
2,3-Dimethylpentane	ND	ND	ND	ND	ND
3-Methylhexane	ND	ND	ND	ND	ND
2,2,4-Trimethylpentane	0.70	7.000E-04	ND	ND	7.000E-04
n-Heptane	0.20	2.000E-04	ND	ND	2.000E-04
2,4,4-Trimethyl-1-pentene	ND	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND	ND
2,4,4-Trimethyl-2-pentene	ND	ND	ND	ND	ND
2,5-Dimethylhexane	ND	ND	ND	ND	ND
2,4-Dimethylhexane	ND	ND	ND	ND	ND
2,3,4-Trimethylpentane	0.10	1.000E-04	ND	ND	1.000E-04
Toluene	1.90	1.900E-03	ND	ND	1.900E-03
2,3-Dimethylhexane	ND	ND	ND	ND	ND
2-Methylheptane	ND	ND	ND	ND	ND
3-Ethylhexane	ND ND	ND ND	ND ND	ND ND	ND ND
2,2-Dimethylheptane 2,2,4-Trimethylhexane	ND ND	ND ND	ND ND	ND ND	ND ND
n-Octane	ND ND	ND ND	ND	ND	ND ND
Ethylcyclohexane	ND	ND	ND ND	ND ND	ND ND
Ethylbenzene	0.50	5.000E-04	ND ND	ND	5.000E-04
m-Xylene & p-Xylene	0.80	8.000E-04	ND	ND	8.000E-04
Styrene	ND	ND	ND	ND	ND
o-Xylene	0.70	7.000E-04	ND	ND	7.000E-04
n-Nonane	0.50	5.000E-04	ND	ND	5.000E-04
i-Propylbenzene	ND	ND	ND	ND	ND
n-Propylbenzene	0.10	1.000E-04	ND	ND	1.000E-04
p-Ethyltoluene	0.50	5.000E-04	ND	ND	5.000E-04
m-Ethyltoluene	0.30	3.000E-04	ND	ND	3.000E-04
1,3,5-Trimethylbenzene	0.40	4.000E-04	ND	ND	4.000E-04
o-Ethyltoluene	0.30	3.000E-04	ND	ND	3.000E-04
1,2,4-Trimethylbenzene & sec- Butylbenzene	1.10	1.100E-03	ND	ND	1.100E-03
n-Decane	ND	ND	ND	ND	ND
alpha-Pinene	ND	ND	ND	ND	ND
beta-Pinene	ND	ND	ND	ND	ND
delta 3-Carene	ND	ND	ND	ND	ND
d-Limonene	ND	ND	ND	ND	ND
MTBE	ND	ND	ND	ND	ND
ETBE	ND	ND	ND	ND	ND

Analyte	Run 2 Sample 1 - Amount Detected, ppbv	Run 2 Sample 1 - Amount Detected, mg/m ³	Run 2 Sample 2 - Amount Detected, ppbv	Run 2 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 2, ppbv
Dichlorodifluoromethane	0.189	-	ND	-	1.894E-01
Methylchloride	ND	-	ND	-	ND
Dichlorotetrafluoroethane	ND	-	ND	-	ND
Chloroethene	ND	-	ND	-	ND
1,3-Butadiene	0.136	-	ND	-	1.358E-01
Methylbromide	ND	<u> </u>	ND	_	ND
Ethylchloride	ND	-	ND	-	ND
Trichloromonofluoromethane	0.429	_	ND	-	4.294E-01
Vinylidenechloride	ND	-	ND	-	ND
Methylenechloride	1.316	-	ND	-	1.316E+00
Allylchloride	ND	-	ND	-	ND
1,1,2-Trichloro-1,2,2- trifluoroethane	0.107	-	ND	-	1.069E-01
1,1-Dichloroethane	ND	-	ND	-	ND
1,2-Dichloroethene	ND	-	ND	-	ND
Chloroform	ND	-	ND	-	ND
1,2-Dichloroethane	ND	-	ND	-	ND
Methylchloroform	0.065	-	ND	-	6.452E-02
Benzene	1.191	-	ND	-	1.191E+00
Carbontetrachloride	0.123	-	ND	-	1.229E-01
1,2-Dichloropropane	ND	-	ND	-	ND
Trichloroethylene	ND	-	ND	_	ND
cis 1,3-Dichloro-1-propene	ND	-	ND	-	ND
trans 1,3-Dichloro-1-propene	ND	-	ND	-	ND
1,1,2-Trichloroethane	ND	-	ND	-	ND
Toluene	0.505	-	ND	-	5.049E-01
1,2-Dibromoethane	ND	-	ND	-	ND
Perchloroethylene	ND	-	ND	-	ND
Chlorobenzene	ND	-	ND	-	ND
Ethylbenzene	0.115	-	ND	-	1.153E-01
m&p-Xylene	0.248	-	ND	•	2.481E-01
Styrene	ND	-	ND	-	ND
1,1,2,2-Tetrachloroethane	ND	-	ND	•	ND
o-Xylene	0.161	-	ND	-	1.615E-01
p-Ethyltoluene	0.063	-	ND	-	6.350E-02
1,3,5-Trimethylbenzene	ND	-	ND	-	ND
1,2,4-Trimethylbenzene	0.146	-	ND	-	1.465E-01
Benzylchloride	ND	-	ND	-	ND
m-Dichlorobenzene	ND	-	ND	-	ND
p-Dichlorobenzene	ND		ND	•	ND

TABLE E-4. AEC - RUN NO. 2 HG TEST (30 MARCH 1998)

Analyte	Run 2 Sample 1 - Amount Detected, ppbv	Run 2 Sample 1 - Amount Detected, mg/m ³	Run 2 Sample 2 - Amount Detected, ppbv	Run 2 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 2, ppbv
o-Dichlorobenzene	ND	-	ND		ND
1,2,4-Trichlorobenzene	ND	-	ND	-	ND
Hexachlorobutadiene	ND	_	ND	-	ND
Phenylacetylene	ND	-	ND	-	ND
Indane	ND	-	ND	-	ND
2,3-Dihydro-1-methyl-1H-indene	ND	-	ND	-	ND
2,3-Dihydro-4-methyl-1H-indene	ND	-	ND	-	ND
Naphthalene	0.185	-	ND	-	1.849E-01
2-Methylnaphthalene	ND	-	ND	-	ND
1-Methylnaphthalene	ND	-	ND	-	ND
Cyanogen	ND	-	ND	-	ND
Methylnitrite	0.693	-	ND	-	6.931E-01
Acetonitrile	0.091	-	ND	-	9.069E-02
Acrylonitrile	ND	-	ND	-	ND
Nitromethane	0.552	-	ND	-	5.520E-01
Propanenitrile	0.058	-	ND	-	5.785E-02
2-Methylpropanenitrile	ND	-	ND	-	ND
Pentanenitrile	ND	-	ND	-	ND
Hexanenitrile	ND	-	ND	-	ND
Benzonitrile	ND	-	ND	-	ND
2-Nitrophenol	ND	-	ND	-	ND
Acrolein	1.522	-	ND	-	1.522E+00
Acetone	4.953	-	ND	-	4.953E+00
1-Hydroxy-2-propanone	0.088	-	ND	-	8.825E-02
Furan	0.258		ND	-	2.583E-01
2-Propanol	ND	-	ND		ND
2-Methylpropanal	ND	-	ND	-	ND
1-Propanol	ND	-	ND	-	ND
Methacrolein	ND	-	ND	-	ND
Methyl-vinyl Ketone	0.167	•	ND	-	1.671E-01
MTBE	ND	-	ND	-	ND
2,3-Butanedione	· ND	-	ND	-	ND
Butanal	0.085	-	ND	-	8.459E-02
2-Butanone	0.653	-	ND	-	6.530E-01
2-Methyl-1,3-dioxolane	ND	-	ND	-	ND
2-Methylfuran	ND	-	ND	-	ND
Tetrahydrofuran	ND	-	ND	-	ND
trans-2-Butenal	0.148	•	ND	•	1.478E-01
Acetic Acid	0.704	-	ND	-	7.041E-01
1-Butanol	ND	•	ND	-	ND

TABLE E-4. AEC - RUN NO. 2 HG TEST (30 MARCH 1998)

Analyte	Run 2 Sample 1 - Amount Detected, ppbv	Run 2 Sample 1 - Amount Detected, mg/m ³	Run 2 Sample 2 - Amount Detected, ppbv	Run 2 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 2, ppbv
2-Pentanone	0.080	-	ND	-	8.004E-02
Pentanal	0.263	-	ND	-	2.630E-01
1,4-Dioxane	ND	-	ND	-	ND
Methyl Methacrylate	ND	-	ND	-	ND
Cyclopentanone	ND	-	ND	_	ND
Hexanal	0.119	-	ND	-	1.191E-01
2-Furaldehyde	0.647	-	ND	-	6.472E-01
Cyclohexanone	ND	-	ND	-	ND
Heptanal	0.113	-	ND	-	1.127E-01
2-Butoxyethanol	ND	-	ND	-	ND
Benzaldehyde	0.484	-	ND	-	4.842E-01
6-Methyl-5-hepten-2-one	ND	-	ND	-	ND
Octanal	0.210	-	ND	-	2.104E-01
Benzofuran	0.073	-	ND	-	7.296E-02
2-Ethyl-1-hexanol	ND	-	ND	-	ND
Acetophonone	0.054	-	ND	-	5.432E-02
Nonanal	0.220	_	ND	-	2.202E-01
Decanal	0.171	-	ND	-	1.712E-01
Carbonyl Sulfide	0.182	-	ND	•	1.825E-01
Carbon Disulfide	33.234	-	ND	-	3.323E+01
Thiophene	0.148	-	ND	-	1.479E-01
Dimethyldisulfide	ND	-	ND	-	ND

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m ³	Run 2 Background Sample - Amount Detected, ug/m³ or ppby	Run 2 Background Sample - Amount Detected, mg/m³	Average Background Concentration - Run 1-2, mg/m³
TNMHC	-	21.50	2.150E-02	24.70	2.470E-02	2.310E-02
Ethane	30	2.20	2.200E-03	3.60	3.600E-03	2.900E-03
Ethylene	28	0.20	2.000E-04	0.10	1.000E-04	1.500E-04
Acetylene	26	1.00	1.000E-03	0.90	9.000E-04	9.500E-04
Propane	44	2.00	2.000E-03	1.80	1.800E-03	1.900E-03
Propene	42	0.10	1.000E-04	ND ND	ND	1.000E-04
i-Butane	58	0.40	4.000E-04	0.40	4.000E-04	4.000E-04
i-Butene	56	ND	ND	ND	ND	ND
1-Butene	56	ND	ND	ND	ND	ND
1,3-Butadiene	54	ND	ND	ND	ND	ND
n-Butane	58	0.80	8.000E-04	0.90	9.000E-04	8.500E-04
trans-2-Butene	56	ND	ND	ND	ND	ND
2,2-Dimethylpropane	72	ND	ND	ND	ND	ND
cis-2-Butene	56	ND	ND	ND	ND	ND
3-Methyl-1-butene	70	ND	ND	ND	ND	ND
i-Pentane	72	0.30	3.000E-04	0.30	3.000E-04	3.000E-04
1-Pentene	70	ND	ND	ND	ND	ND
2-Methyl-1-butene	70	ND	ND	ND	ND	ND
n-Pentane	72	0.30	3.000E-04	0.30	3.000E-04	3.000E-04
Isoprene	68	0.20	2.000E-04	ND	ND	2.000E-04
trans-2-Pentene	70	ND ND	ND ND	ND ND	ND	ND ND
cis-2-Pentene	70 70	ND ND	ND ND	ND ND	ND ND	ND ND
2-Methyl-2-butene 2,2-Dimethylbutane	86	ND ND	ND ND	0.40	4.000E-04	4.000E-04
Cyclopentene	68	ND ND	ND	ND	4.000E-04 ND	4.000E-04 ND
4-Methyl-1-pentene	84	ND ND	ND	ND ND	ND ND	ND ND
Cyclopentane	70	ND ND	ND	ND ND	ND	ND ND
2,3-Dimethylbutane	86	ND ND	ND	ND ND	ND	ND
cis-4-Methyl-2-pentene	84	ND	ND	ND	ND	ND
2-Methylpentane	86	0.20	2.000E-04	0.10	1.000E-04	1.500E-04
3-Methylpentane	86	ND	ND	0.10	1.000E-04	1.000E-04
2-Methyl-1-pentene	84	ND	ND	ND	ND	ND
1-Hexene	84	ND	ND	ND	ND	ND
n-Hexane	86	0.10	1.000E-04	0.10	1.000E-04	1.000E-04
trans-2-Hexene	84	ND	ND	ND	ND	ND
2-Methyl-2-pentene	84	ND	ND	ND	ND	ND
cis-2-Hexene	84	ND	ND	ND	ND	ND
Methylcyclopentane	84	0.10	1.000E-04	0.10	1.000E-04	1.000E-04
2,4-Dimethylpentane	100	0.10	1.000E-04	0.10	1.000E-04	1.000E-04
Benzene	78	0.50	5.000E-04	0.60	6.000E-04	5.500E-04
Cyclohexane	84	0.10	1.000E-04	ND	ND	1.000E-04
2-Methylhexane	100	0.10	1.000E-04	ND	ND	1.000E-04
2,3-Dimethylpentane	100	0.10	1.000E-04	0.10	1.000E-04	1.000E-04
3-Methylhexane	100	0.20	2.000E-04	0.30	3.000E-04	2.500E-04
2,2,4-Trimethylpentane	114	0.20	2.000E-04	0.20	2.000E-04	2.000E-04
n-Heptane	100	0.10	1.000E-04	0.10	1.000E-04	1.000E-04
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Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m³	Run 2 Background Sample - Amount Detected, ug/m³ or ppbv	Run 2 Background Sample - Amount Detected, mg/m ³	Average Background Concentration - Run 1-2, mg/m ³
2,4,4-Trimethyl-1-pentene	112	0.20	2.000E-04	ND	ND	2.000E-04
Methylcyclohexane	98	ND	ND	ND	ND	ND
2,4,4-Trimethyl-2-pentene	112	ND	ND	ND	ND	ND
2,5-Dimethylhexane	114	ND	ND	ND	ND	ND
2,4-Dimethylhexane	114	ND	ND	ND	ND	ND
2,3,4-Trimethylpentane	114	0.10	1.000E-04	0.10	1.000E-04	1.000E-04
Toluene	92	0.50	5.000E-04	0.50	5.000E-04	5.000E-04
2,3-Dimethylhexane	114	ND ND	ND	ND	ND	ND
2-Methylheptane	111	ND	ND	ND	ND	ND ND
3-Ethylhexane	114	ND	ND	ND	ND	ND
2,2-Dimethylheptane	128	ND	ND	ND	ND	ND
2,2,4-Trimethylhexane	128	ND	ND	ND	ND	· ND
n-Octane	114	0.10	1.000E-04	ND	ND	1.000E-04
Ethylcyclohexane	112	ND	ND	ND	ND	ND
Ethylbenzene	160	0.10	1.000E-04	0.10	1.000E-04	1.000E-04
m-Xylene & p-Xylene	106	0.60	6.000E-04	0.50	5.000E-04	5.500E-04
Styrene	104	ND	ND	ND	ND	ND
o-Xylene	106	0.20	2.000E-04	0.20	2.000E-04	2.000E-04
n-Nonane	128	0.10	1.000E-04	ND	ND	1.000E-04
i-Propylbenzene	120	ND	ND	ND	ND	ND
n-Propylbenzene	120	0.10	1.000E-04	ND	ND	1.000E-04
p-Ethyltoluene	120	0.30	3.000E-04	ND	ND	3.000E-04
m-Ethyltoluene	120	0.10	1.000E-04	ND	ND	1.000E-04
1,3,5-Trimethylbenzene	120	0.20	2.000E-04	ND	ND	2.000E-04
o-Ethyltoluene	120	0.10	1.000E-04	ND	ND	1.000E-04
1,2,4-Trimethylbenzene & sec-	400		0.000= 0.4	0.40	4 0005 04	0.0005.04
Butylbenzene n-Decane	120	0.20	2.000E-04	0.40 ND	4.000E-04	3.000E-04 1.000E-04
	142 136	0.10 ND	1.000E-04	ND ND	ND ND	1.000E-04 ND
alpha-Pinene beta-Pinene	136	ND ND	ND ND	ND ND	ND ND	ND ND
delta 3-Carene	136	ND	ND ND	ND	ND ND	ND
d-Limonene	136	ND	ND ND	ND	ND ND	ND
MTBE	88	ND	ND	ND	ND	ND
ETBE	102.0	ND ND	ND ND	ND	ND ND	ND ND
Dichlorodifluoromethane	120.0	0.28	1.379E-03	0.10	5.226E-04	9.510E-04
Methylchloride	50.0	ND	ND	ND	ND	ND
Dichlorotetrafluoroethane	171.0	ND ND	ND ND	ND ND	ND ND	ND
Chloroethene	63.0	ND ND	ND	ND	ND ND	ND ND
1,3-Butadiene	54.0	ND	ND ND	ND	ND	ND
Methylbromide	95.0	ND ND	ND ND	ND ND	ND	ND ND
Ethylchloride	64.5	ND ND	ND ND	ND ND	ND ND	ND ND
Trichloromonofluoromethane	137.0	0.44	2.533E-03	0.44	2.521E-03	2.527E-03
Vinylidenechloride	97.0	ND	ND	ND	ND	ND
Methylenechloride	85.0	0.27	9.447E-04	0.11	4.020E-04	6.733E-04
Allylchloride	76.5	ND	9.447E-04 ND	ND	ND	ND /

Analyte Weight ppbv mg/m³ ppb	bv mg/m³ Run 1-2, mg/
trifluoroethane 188.0 0.12 9.142E-04 0.1 1,1-Dichloroethane 99.0 ND ND ND 1,2-Dichloroethene 97.0 ND ND ND Chloroform 119.0 ND ND ND 1,2-Dichloroethane 99.0 ND ND ND Methylchloroform 133.0 0.06 3.458E-04 0.0 Benzene 78.0 0.16 5.086E-04 0.1 Carbontetrachloride 154.0 0.11 7.248E-04 0.1 1,2-Dichloropropane 113.0 ND ND ND Trichloroethylene 133.0 ND ND ND cis 1,3-Dichloro-1-propene 111.0 ND ND ND 1,1,2-Trichloroethane 133.0 ND ND ND Toluene 92.0 0.13 5.086E-04 0.1 1,2-Dibromoethane 188.0 ND ND ND Perchloroethylene 166.0 ND	
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1,2-Dichloroethane 99.0 ND ND ND Methylchloroform 133.0 0.06 3.458E-04 0.0 Benzene 78.0 0.16 5.086E-04 0.1 Carbontetrachloride 154.0 0.11 7.248E-04 0.1 1,2-Dichloropropane 113.0 ND ND ND Trichloroethylene 133.0 ND ND ND cis 1,3-Dichloro-1-propene 111.0 ND ND ND 1,1,2-Trichloroethane 133.0 ND ND ND 7oluene 92.0 0.13 5.086E-04 0.1 1,2-Dibromoethane 188.0 ND ND ND Perchloroethylene 166.0 ND ND ND Chlorobenzene 113.0 ND ND ND Ethylbenzene 160.0 ND ND ND	
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trans 1,3-Dichloro-1-propene 111.0 ND ND ND 1,1,2-Trichloroethane 133.0 ND ND ND Toluene 92.0 0.13 5.086E-04 0.1 1,2-Dibromoethane 188.0 ND ND ND Perchloroethylene 166.0 ND ND ND Chlorobenzene 113.0 ND ND ND Ethylbenzene 160.0 ND ND ND	
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Toluene 92.0 0.13 5.086E-04 0.1 1,2-Dibromoethane 188.0 ND ND ND Perchloroethylene 166.0 ND ND ND Chlorobenzene 113.0 ND ND ND Ethylbenzene 160.0 ND ND ND	
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Perchloroethylene 166.0 ND ND ND Chlorobenzene 113.0 ND ND ND Ethylbenzene 160.0 ND ND ND	13 5.086E-04 5.086E-04
Chlorobenzene 113.0 ND ND ND Ethylbenzene 160.0 ND ND ND	D ND ND
Ethylbenzene 160.0 ND ND ND	D ND ND
	D ND ND
m&p-Xylene 106.0 0.13 5.549F-04 0.1	D ND ND
	10 4.541E-04 5.045E-04
Styrene 104.0 ND ND ND	
1,1,2,2-Tetrachloroethane 168.0 ND ND NE	D ND ND
o-Xylene 106.0 ND ND ND	
p-Ethyltoluene 120.0 ND ND ND	
1,3,5-Trimethylbenzene 120.0 ND ND ND	
1,2,4-Trimethylbenzene 120.0 0.13 6.311E-04 0.0	
Benzylchloride 127.0 ND ND ND	
m-Dichlorobenzene 147.0 ND ND ND	
p-Dichlorobenzene 147.0 ND ND ND	
o-Dichlorobenzene 147.0 ND ND ND	
1,2,4-Trichlorobenzene 181.0 ND ND ND	
Hexachlorobutadiene 261.0 ND ND ND	
Phenylacetylene 102.0 ND ND ND	
Indane 118.0 ND ND ND	
2,3-Dihydro-1-methyl-1H-indene 132.0 ND ND ND	
2,3-Dihydro-4-methyl-1H-indene 132.0 ND ND ND	
Naphthalene 128.0 0.13 6.852E-04 0.0	
2-Methylnaphthalene 142.0 ND ND ND	
1-Methylnaphthalene 142.0 ND ND ND	
Cyanogen 52 ND ND ND	
Methylnitrite 61.0 ND ND ND	
Acetonitrile 41.0 ND ND ND	
Acrylonitrile 53.0 ND ND ND	
Nitromethane 61.0 ND ND ND	D I ND I ND
Propanenitrile 55.0 ND ND ND 2-Methylpropanenitrile 69.0 ND ND ND	D ND ND

TABLE E-5. AEC - BACKGROUND RUN NO. 1-2 HG TEST (30 MARCH 1998)

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m³	Run 2 Background Sample - Amount Detected, ug/m³ or ppbv	Run 2 Background Sample - Amount Detected, mg/m³	Average Background Concentration - Run 1-2, mg/m ³
Pentanenitrile	83.0	ND	ND	ND	ND	ND ND
Hexanenitrile	97.0	ND	ND	ND ND	ND	ND
Benzonitrile	103.0	ND	ND	ND ND	ND ND	ND ND
	139.0	ND ND	ND	ND ND	ND ND	ND ND
2-Nitrophenol Acrolein	56.0	ND ND	ND	ND	ND ND	ND ND
		5.05	1.177E-02	2.56	5.964E-03	8.869E-03
Acetone	56.0			2.56 ND	5.964E-03 ND	1.136E-03
1-Hydroxy-2-propanone	74.0	0.37	1.136E-03			ND
Furan	68.0	ND	ND	ND	ND ND	
2-Propanol	60.0	6.06	1.513E-02	ND	ND	1.513E-02
2-Methylpropanal	74.0	ND	ND	ND	ND	ND
1-Propanol	60.0	ND	ND	ND	ND ND	ND
Methacrolein	70.0	ND	ND	ND	ND	ND
Methyl-vinyl Ketone	70.0	ND	ND	ND ND	ND	ND ND
MTBE	88.0	ND	ND	ND	ND	ND
2,3-Butanedione	86.0	ND	ND	ND	ND 0.005F-04	ND
Butanal	72.0	0.09	2.639E-04	0.07	2.005E-04	2.322E-04
2-Butanone	72.0	0.24	7.127E-04	0.27	8.091E-04	7.609E-04
2-Methyl-1,3-dioxolane	88.0	ND	ND	ND	ND	ND '
2-Methylfuran	82.0	ND	ND	ND ND	ND	ND
Tetrahydrofuran	72.0	ND	ND	ND	ND	ND ND
trans-2-Butenal	70.0	ND	ND	ND	ND	ND
Acetic Acid	60.0	1.35	3.365E-03	0.62	1.550E-03	2.458E-03
1-Butanol	74.0	ND	ND	ND	ND	ND
2-Pentanone	86.0	ND	ND	ND	ND	ND
Pentanal	86.0	0.27	9.701E-04	0.30	1.075E-03	1.022E-03
1,4-Dioxane	88.0	ND	ND	ND	ND ND	ND ND
Methyl Methacrylate	100.0	ND	ND	ND	ND	ND
Cyclopentanone	84.0	ND	ND	ND	ND	ND
Hexanal	100.0	0.14	5.910E-04	0.12	4.894E-04	5.402E-04
2-Furaldehyde	96.0	ND	ND	ND	ND	ND_
Cyclohexanone	98.0	ND	ND	ND	ND	ND
Heptanal	114.0	0.16	7.495E-04	0.10	4.613E-04	6.054E-04
2-Butoxyethanol	118.0	0.20	9.842E-04	0.10	5.094E-04	7.468E-04
Benzaldehyde	106.0	0.28	1.230E-03	0.16	7.071E-04	9.684E-04
6-Methyl-5-hepten-2-one	126.0	ND	ND	0.29	1.540E-03	1.540E-03
Octanal	128.0	0.32	1.720E-03	0.14	7.641E-04	1.242E-03
Benzofuran	118.0	ND	ND	ND	ND	ND
2-Ethyl-1-hexanol	120.0	ND	ND	ND	ND	ND
Acetophonone	120.0	ND	ND	ND	ND	ND
Nonanal	142.0	0.39	2.304E-03	0.22	1.320E-03	1.812E-03
Decanal	156.0	0.42	2.755E-03	0.20	1.329E-03	2.042E-03
Carbonyl Sulfide	60.0	0.09	2.330E-04	0.05	1.251E-04	1.790E-04
Carbon Disulfide	76.0	0.19	5.899E-04	0.20	6.278E-04	6.089E-04
Thiophene	84.0	ND	ND	ND	ND	ND
Dimethyldisulfide	94.0	ND	ND	ND	ND	ND

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppbv	Detection Limit -Amount Detected, mg/m ³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
TNMHC		0.1	1.000E-04	1.000E-04	1.000E-04
Ethane	30	0.1	1.000E-04	1.000E-04	1.000E-04
Ethylene	28	0.1	1.000E-04	1.000E-04	1.000E-04
Acetylene	26	0.1	1.000E-04	1.000E-04	1.000E-04
Propane	44	0.1	1.000E-04	1.000E-04	
	42	0.1			1.000E-04
Propene		<u> </u>	1.000E-04	1.000E-04	1.000E-04
i-Butane	58	0.1	1.000E-04	1.000E-04	1.000E-04
i-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
1-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
1,3-Butadiene	54	0.1	1.000E-04	1.000E-04	1.000E-04
n-Butane	58	0.1	1.000E-04	1.000E-04	1.000E-04
trans-2-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
2,2-Dimethylpropane	72	0.1	1.000E-04	1.000E-04	1.000E-04
cis-2-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
3-Methyl-1-butene	70	0.1	1.000E-04	1.000E-04	1.000E-04
i-Pentane	72	0.1	1.000E-04	1.000E-04	1.000E-04
1-Pentene	70	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-1-butene	70	0.1	1.000E-04	1.000E-04	1.000E-04
n-Pentane	72	0.1	1.000E-04	1.000E-04	1.000E-04
Isoprene	68	0.1	1.000E-04	1.000E-04	1.000E-04
trans-2-Pentene	70	0.1	1.000E-04	1.000E-04	1.000E-04
cis-2-Pentene	70	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-2-butene	70	0.1	1.000E-04	1.000E-04	1.000E-04
2,2-Dimethylbutane	86	0.1	1.000E-04	1.000E-04	1.000E-04
Cyclopentene	68	0.1	1.000E-04	1.000E-04	1.000E-04
4-Methyl-1-pentene	84	0.1	1.000E-04	1.000E-04	1.000E-04
Cyclopentane	70	0.1	1.000E-04	1.000E-04	1.000E-04
2,3-Dimethylbutane	86	0.1	1.000E-04	1.000E-04	1.000E-04
cis-4-Methyl-2-pentene	84	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methylpentane	86	0.1	1.000E-04	1.000E-04	1.000E-04
3-Methylpentane	86	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-1-pentene	84	0.1	1.000E-04	1.000E-04	1.000E-04
1-Hexene	84	0.1	1.000E-04	1.000E-04	1.000E-04
n-Hexane	86	0.1	1.000E-04	1.000E-04	1.000E-04
trans-2-Hexene	84	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-2-pentene	84	0.1	1.000E-04	1.000E-04	1.000E-04
cis-2-Hexene	84	0.1	1.000E-04	1.000E-04	1.000E-04
Methylcyclopentane	84	0.1	1.000E-04	1.000E-04	1.000E-04
2.4-Dimethylpentane	100	0.1	1.000E-04	1.000E-04	1.000E-04
Benzene	78	0.1	1.000E-04	1.000E-04	1.000E-04
Cyclohexane	84	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methylhexane	100	0.1	1.000E-04	1.000E-04	1.000E-04
saryarozaro	100	<u> </u>	1.0002-04	1.000L-04	1.000L-07

TABLE E-6. AEC - RUN NO. 1-2 HG TEST (30 MARCH 1998)

	1	1	T		
	Molecular	Detection Limit - Amount Detected, ug/m ³ or	Detection Limit -Amount Detected,	Concentration,	Average Minimum Detection Limit - Concentration,
Analyte	Weight	ppbv	mg/m³	mg/m³	mg/m³
2,3-Dimethylpentane	100	0.1	1.000E-04	1.000E-04	1.000E-04
3-Methylhexane	100	0.1	1.000E-04	1.000E-04	1.000E-04
2,2,4-Trimethylpentane	114	0.1	1.000E-04	1.000E-04	1.000E-04
n-Heptane	100	0.1	1.000E-04	1.000E-04	1.000E-04
2,4,4-Trimethyl-1-pentene	112	0.1	1.000E-04	1.000E-04	1.000E-04
Methylcyclohexane	98	0.1	1.000E-04	1.000E-04	1.000E-04
2,4,4-Trimethyl-2-pentene	112	0.1	1.000E-04	1.000E-04	1.000E-04
2,5-Dimethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2,4-Dimethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2,3,4-Trimethylpentane	114	0.1	1.000E-04	1.000E-04	1.000E-04
Toluene	92	0.1	1.000E-04	1.000E-04	1.000E-04
2,3-Dimethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methylheptane	111	0.1	1.000E-04	1.000E-04	1.000E-04
3-Ethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2,2-Dimethylheptane	128	0.1	1.000E-04	1.000E-04	1.000E-04
2,2,4-Trimethylhexane	128	0.1	1.000E-04	1.000E-04	1.000E-04
n-Octane	114	0.1	1.000E-04	1.000E-04	1.000E-04
Ethylcyclohexane	112	0.1	1.000E-04	1.000E-04	1.000E-04
Ethylbenzene	160	0.1	1.000E-04	1.000E-04	1.000E-04
m-Xylene & p-Xylene	106	0.1	1.000E-04	1.000E-04	1.000E-04
Styrene	104	0.1	1.000E-04	1.000E-04	1.000E-04
o-Xylene	106	0.1	1.000E-04	1.000E-04	1.000E-04
n-Nonane	128	0.1	1.000E-04	1.000E-04	1.000E-04
i-Propylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
n-Propylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
p-Ethyltoluene	120	0.1	1.000E-04	1.000E-04	1.000E-04
m-Ethyltoluene	120	0.1	1.000E-04	1.000E-04	1.000E-04
1,3,5-Trimethylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
o-Ethyltoluene	120	0.1	1.000E-04	1.000E-04	1.000E-04
1,2,4-Trimethylbenzene & sec-	120	 	1.0002 07	1.0002 01	1
Butylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
n-Decane	142	0.1	1.000E-04	1.000E-04	1.000E-04
alpha-Pinene	136	0.1	1.000E-04	1.000E-04	1.000E-04
beta-Pinene	136	0.1	1.000E-04	1.000E-04	1.000E-04
	136	0.1	1.000E-04	1.000E-04	1.000E-04
delta 3-Carene		+		1.000E-04	1.000E-04
d-Limonene	136	0.1	1.000E-04		1.000E-04 1.000E-04
MTBE	88	0.1	1.000E-04	1.000E-04 1.000E-04	1.000E-04 1.000E-04
ETBE Diable rediffueremethens	102.0	0.1	1.000E-04		
Dichlorodifluoromethane	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Methylchloride	50.0	0.1	2.080E-04	2.080E-04	2.080E-04
Dichlorotetrafluoroethane	171.0	0.1	7.114E-04	7.114E-04	7.114E-04

TABLE E-6. AEC - RUN NO. 1-2 HG TEST (30 MARCH 1998)

VOCs and TNMHC Analysis of the Air Sample - Method TO-14 and Method TO-12

Compounds below the DLs are listed as nondetected (ND); compounds in bold are duplicate values Analyzed by: Oregon Graduate Institute

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppby	Detection Limit -Amount Detected, mg/m ³	Average Maximum Detection Limit - Concentration, mg/m ³	Average Minimum Detection Limit - Concentration, mg/m ³
Chloroethene	63.0	0.1	2.621E-04	2.621E-04	2.621E-04
1,3-Butadiene	54.0	0.1	2.246E-04	2.246E-04	2.246E-04
Methylbromide	95.0	0.1	3.952E-04	3.952E-04	3.952E-04
Ethylchloride	64.5	0.1	2.683E-04	2.683E-04	2.683E-04
Trichloromonofluoromethane	137.0	0.1	5.699E-04	5.699E-04	5.699E-04
Vinylidenechloride	97.0	0.1	4.035E-04	4.035E-04	4.035E-04
Methylenechloride	85.0	0.1	3.536E-04	3.536E-04	3.536E-04
Allylchloride	76.5	0.1	3.182E-04	3.182E-04	3.182E-04
1,1,2-Trichloro-1,2,2- trifluoroethane	188.0	0.1	7.821E-04	7.821E-04	7.821E-04
1,1-Dichloroethane	99.0	0.1	4.118E-04	4.118E-04	4.118E-04
1,2-Dichloroethene	97.0	0.1	4.035E-04	4.035E-04	4.035E-04
Chloroform	119.0	0.1	4.950E-04	4.950E-04	4.950E-04
1,2-Dichloroethane	99.0	0.1	4.118E-04	4.118E-04	4.118E-04
Methylchloroform	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
Benzene	78.0	0.1	3.245E-04	3.245E-04	3.245E-04
Carbontetrachloride	154.0	0.1	6.406E-04	6.406E-04	6.406E-04
1,2-Dichloropropane	113.0	0.1	4.701E-04	4.701E-04	4.701E-04
Trichloroethylene	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
cis 1,3-Dichloro-1-propene	111.0	0.1	4.618E-04	4.618E-04	4.618E-04
trans 1,3-Dichloro-1-propene	111.0	0.1	4.618E-04	4.618E-04	4.618E-04
1,1,2-Trichloroethane	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
Toluene	92.0	0.1	3.827E-04	3.827E-04	3.827E-04
1,2-Dibromoethane	188.0	0.1	7.821E-04	7.821E-04	7.821E-04
Perchloroethylene	166.0	0.1	6.906E-04	6.906E-04	6.906E-04
Chlorobenzene	113.0	0.1	4.701E-04	4.701E-04	4.701E-04
Ethylbenzene	160.0	0.1	6.656E-04	6.656E-04	6.656E-04
m&p-Xylene	106.0	0.1	4.410E-04	4.410E-04	4.410E-04
Styrene	104.0	0.1	4.326E-04	4.326E-04	4.326E-04
1,1,2,2-Tetrachloroethane	168.0	0.1	6.989E-04	6.989E-04	6.989E-04
o-Xylene	106.0	0.1	4.410E-04	4.410E-04	4.410E-04
p-Ethyltoluene	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
1,3,5-Trimethylbenzene	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
1,2,4-Trimethylbenzene	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Benzylchloride	127.0	0.1	5.283E-04	5.283E-04	5.283E-04
m-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04	6.115E-04
p-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04	6.115E-04
o-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04	6.115E-04
1,2,4-Trichlorobenzene	181.0	0.1	7.530E-04	7.530E-04	7.530E-04
Hexachlorobutadiene	261.0	0.1	1.086E-03	1.086E-03	1.086E-03
Phenylacetylene	102.0	0.1	4.243E-04	4.243E-04	4.243E-04
Indane	118.0	0.1	4.909E-04	4.909E-04	4.909E-04

TABLE E-6. AEC - RUN NO. 1-2 HG TEST (30 MARCH 1998)

VOCs and TNMHC Analysis of the Air Sample - Method TO-14 and Method TO-12

Compounds below the DLs are listed as nondetected (ND); compounds in bold are duplicate values Analyzed by: Oregon Graduate Institute

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m ³ or ppbv	Detection Limit -Amount Detected, mg/m ³	Average Maximum Detection Limit - Concentration, mg/m ³	Average Minimum Detection Limit - Concentration, mg/m ³
2,3-Dihydro-1-methyl-1H-indene	132.0	0.1	5.491E-04	5.491E-04	5.491E-04
2,3-Dihydro-4-methyl-1H-indene	132.0	0.1	5.491E-04	5.491E-04	5.491E-04
Naphthalene	128.0	0.1	5.325E-04	5.325E-04	5.325E-04
2-Methylnaphthalene	142.0	0.1	5.907E-04	5.907E-04	5.907E-04
1-Methylnaphthalene	142.0	0.1	5.907E-04	5.907E-04	5.907E-04
Cyanogen	52	0.1	2.163E-04	2.163E-04	2.163E-04
Methylnitrite	61.0	0.1	2.538E-04	2.538E-04	2.538E-04
Acetonitrile	41.0	0.1	1.706E-04	1.706E-04	1.706E-04
Acrylonitrile	53.0	0.1	2.205E-04	2.205E-04	2.205E-04
Nitromethane	61.0	0.1	2.538E-04	2.538E-04	2.538E-04
Propanenitrile	55.0	0.1	2.288E-04	2.288E-04	2.288E-04
2-Methylpropanenitrile	69.0	0.1	2.870E-04	2.870E-04	2.870E-04
Pentanenitrile	83.0	0.1	3.453E-04	3.453E-04	3.453E-04
Hexanenitrile	97.0	0.1	4.035E-04	4.035E-04	4.035E-04
Benzonitrile	103.0	0.1	4.285E-04	4.285E-04	4.285E-04
2-Nitrophenol	139.0	0.1	5.782E-04	5.782E-04	5.782E-04
Acrolein	56.0	0.1	2.330E-04	2.330E-04	2.330E-04
Acetone	56.0	0.1	2.330E-04	2.330E-04	2.330E-04
1-Hydroxy-2-propanone	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
Furan	68.0	0.1	2.829E-04	2.829E-04	2.829E-04
2-Propanol	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
2-Methylpropanal	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
1-Propanol	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
Methacrolein	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
Methyl-vinyl Ketone	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
MTBE	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
2,3-Butanedione	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
Butanal	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
2-Butanone	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
2-Methyl-1,3-dioxolane	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
2-Methylfuran	82.0	0.1	3.411E-04	3.411E-04	3.411E-04
Tetrahydrofuran	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
trans-2-Butenal	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
Acetic Acid	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
1-Butanol	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
2-Pentanone	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
Pentanal	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
1,4-Dioxane	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
Methyl Methacrylate	100.0	0.1	4.160E-04	4.160E-04	4.160E-04
Cyclopentanone	84.0	0.1	3.494E-04	3.494E-04	3.494E-04
Hexanal	100.0	0.1	4.160E-04	4.160E-04	4.160E-04
2-Furaldehyde	96.0	0.1	3.994E-04	3.994E-04	3.994E-04

TABLE E-6. AEC - RUN NO. 1-2 HG TEST (30 MARCH 1998)

VOCs and TNMHC Analysis of the Air Sample - Method TO-14 and Method TO-12

Compounds below the DLs are listed as nondetected (ND); compounds in bold are duplicate values Analyzed by: Oregon Graduate Institute

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppbv	Detection Limit -Amount Detected, mg/m ³	Average Maximum Detection Limit - Concentration, mg/m ³	Average Minimum Detection Limit - Concentration, mg/m³
Cyclohexanone	98.0	0.1	4.077E-04	4.077E-04	4.077E-04
Heptanal	114.0	0.1	4.742E-04	4.742E-04	4.742E-04
2-Butoxyethanol	118.0	0.1	4.909E-04	4.909E-04	4.909E-04
Benzaldehyde	106.0	0.1	4.410E-04	4.410E-04	4.410E-04
6-Methyl-5-hepten-2-one	126.0	0.1	5.242E-04	5.242E-04	5.242E-04
Octanal	128.0	0.1	5.325E-04	5.325E-04	5.325E-04
Benzofuran	118.0	0.1	4.909E-04	4.909E-04	4.909E-04
2-Ethyl-1-hexanol	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Acetophonone	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Nonanal	142.0	0.1	5.907E-04	5.907E-04	5.907E-04
Decanal	156.0	0.1	6.490E-04	6.490E-04	6.490E-04
Carbonyl Sulfide	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
Carbon Disulfide	76.0	0.1	3.162E-04	3.162E-04	3.162E-04
Thiophene	84.0	0.1	3.494E-04	3.494E-04	3.494E-04
Dimethyldisulfide	94.0	0.1	3.910E-04	3.910E-04	3.910E-04

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SIMULATOR GROUND BURST

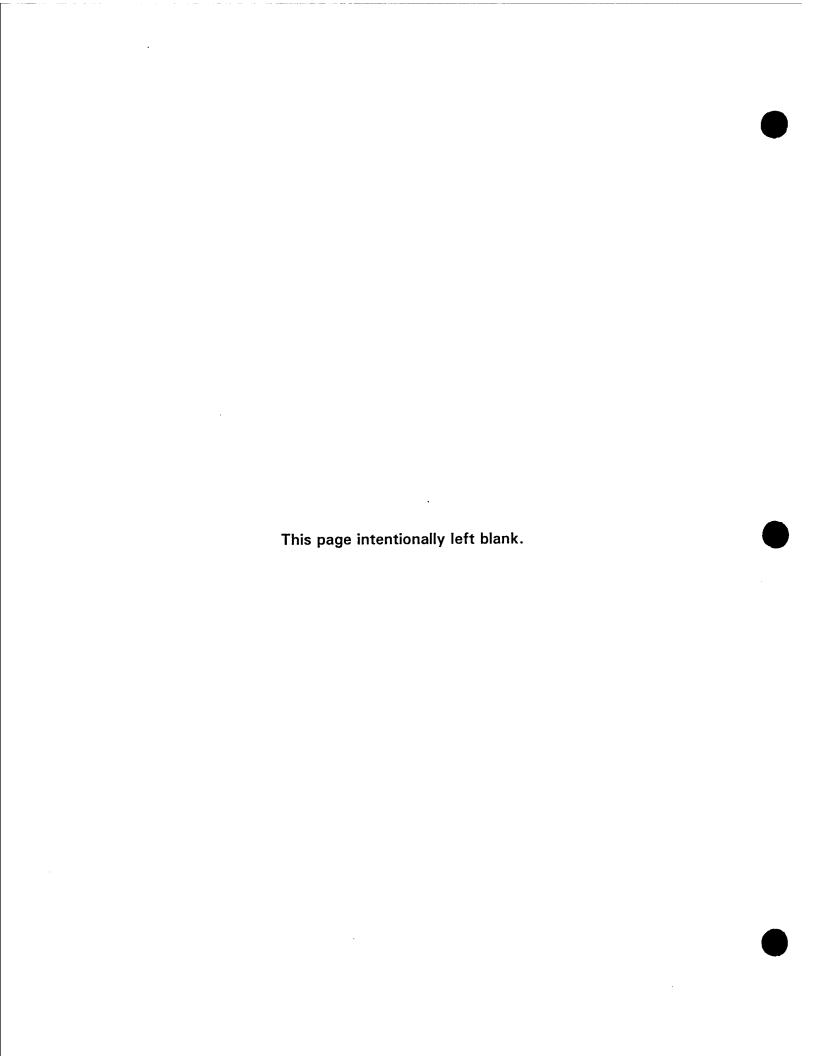


TABLE E-1. AEC - RUN NO. 1 GB TEST (30 MARCH 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ug/m³	Run 1 Sample 1 - Amount Detected, mg/m³	Run 1 Sample 2 - Amount Detected, ug/m³	Run 1 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 1, mg/m ³
TNMHC	123.00	1.230E-01	ND	ND	1.230E-01
Ethane	2.90	2.900E-03	ND	ND	2.900E-03
Ethylene	24.30	2.430E-02	ND	ND	2.430E-02
Acetylene	31.80	3.180E-02	ND	ND	3.180E-02
Propane	2.30	2.300E-03	ND	ND	2.300E-03
Propene	5.20	5.200E-03	ND	ND	5.200E-03
i-Butane	0.50	5.000E-04	ND	ND	5.000E-04
i-Butene	0.30	3.000E-04	ND	ND	3.000E-04
1-Butene	0.70	7.000E-04	ND	ND	7.000E-04
1,3-Butadiene	0.70	7.000E-04	ND	ND	7.000E-04
n-Butane	0.70	7.000E-04	ND	ND	7.000E-04
trans-2-Butene	1.80	1.800E-03	ND	ND	1.800E-03
2,2-Dimethylpropane	ND	ND	ND	ND	ND
cis-2-Butene	0.10	1.000E-04	ND	ND	1.000E-04
3-Methyl-1-butene	ND	ND	ND	ND	ND
i-Pentane	0.40	4.000E-04	ND	ND	4.000E-04
1-Pentene	ND	ND	ND	ND	ND
2-Methyl-1-butene	ND	ND	ND	ND	ND
n-Pentane	0.30	3.000E-04	ND	ND	3.000E-04
Isoprene	ND	ND	ND	ND	ND
trans-2-Pentene	ND	ND	ND	ND	ND
cis-2-Pentene	ND	ND	ND	ND	ND
2-Methyl-2-butene	ND	ND	ND	ND	ND
2,2-Dimethylbutane	ND	ND	ND	ND	ND
Cyclopentene	ND	ND	ND	ND	ND
4-Methyl-1-pentene	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND
2,3-Dimethylbutane	ND	ND	ND	ND	ND
cis-4-Methyl-2-pentene	ND	ND	ND	ND	ND
2-Methylpentane	0.20	2.000E-04	ND	ND	2.000E-04
3-Methylpentane	ND	ND	ND	ND	ND
2-Methyl-1-pentene	ND	ND	ND	ND	ND
1-Hexene	ND	ND	ND	ND	ND
n-Hexane	0.20	2.000E-04	ND	ND	2.000E-04
trans-2-Hexene	ND	ND	ND	ND	ND
2-Methyl-2-pentene	ND	ND	ND	ND	ND
cis-2-Hexene	ND	ND	ND	ND	ND
Methylcyclopentane	0.10	1.000E-04	ND	ND	1.000E-04
2,4-Dimethylpentane	0.20	2.000E-04	ND	ND	2.000E-04
Benzene	7.50	7.500E-03	ND	ND	7.500E-03

TABLE E-1. AEC - RUN NO. 1 GB TEST (30 MARCH 1998)
VOCs and TNMHC Analysis of the Air Sample - Method TO-14 and Method TO-12 Compounds below the DLs are listed as nondetected (ND); compounds in bold are duplicate values Analyzed by: Oregon Graduate Institute

Analyte	Run 1 Sample 1 - Amount Detected, ug/m³	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ug/m³	Run 1 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 1, mg/m³
Cyclohexane	ND	ND	ND	ND	ND
2-Methylhexane	ND	ND	ND	ND	ND
2,3-Dimethylpentane	ND	ND	ND	ND	ND
3-Methylhexane	ND	ND	ND	ND	ND
2,2,4-Trimethylpentane	0.70	7.000E-04	ND	ND	7.000E-04
n-Heptane	0.20	2.000E-04	ND	ND	2.000E-04
2,4,4-Trimethyl-1-pentene	ND	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND	ND
2,4,4-Trimethyl-2-pentene	ND	ND	ND	ND	ND
2,5-Dimethylhexane	0.10	1.000E-04	ND	ND	1.000E-04
2,4-Dimethylhexane	0.10	1.000E-04	ND	ND	1.000E-04
2,3,4-Trimethylpentane	0.10	1.000E-04	ND	ND	1.000E-04
Toluene	2.00	2.000E-03	ND	ND ·	2.000E-03
2,3-Dimethylhexane	ND	ND	ND	ND	ND
2-Methylheptane	ND	ND	ND	ND	ND
3-Ethylhexane	ND	ND	ND	ND	ND
2,2-Dimethylheptane	ND	ND	ND	ND	ND ND
2,2,4-Trimethylhexane	ND	ND	ND	ND	ND
n-Octane	ND	ND	ND	ND	ND
Ethylcyclohexane	ND	ND	ND	ND	ND
Ethylbenzene	0.50	5.000E-04	ND	ND	5.000E-04
m-Xylene & p-Xylene	1.30	1.300E-03	ND	ND	1.300E-03
Styrene	0.40	4.000E-04	ND	ND	4.000E-04
o-Xylene	0.60	6.000E-04	ND	ND	6.000E-04
n-Nonane	0.50	5.000E-04	ND ND	ND ND	5.000E-04 ND
i-Propylbenzene	ND 0.00	ND 2.000E-04	ND ND	ND ND	2.000E-04
n-Propylbenzene p-Ethyltoluene	0.20 0.50	5.000E-04	ND ND	ND	5.000E-04
m-Ethyltoluene	0.50	2.000E-04	ND ND	ND	2.000E-04
1,3,5-Trimethylbenzene	0.30	3.000E-04	ND ND	ND ND	3.000E-04
o-Ethyltoluene	0.30	2.000E-04	ND ND	ND ND	2.000E-04
1,2,4-Trimethylbenzene & sec-	0.20	2.0002-04	IND	ND	2.000L-04
Butylbenzene	1.00	1.000E-03	ND	ND	1.000E-03
n-Decane	0.10	1.000E-04	ND	ND	1.000E-04
alpha-Pinene	ND	ND	ND	ND	ND ND
beta-Pinene	ND	ND	ND	ND	ND
delta 3-Carene	ND	ND	ND	ND	ND
d-Limonene	ND	ND	ND	ND	ND
MTBE	ND ND	ND	ND	ND	ND
ETBE	ND	ND	ND	ND	ND

TABLE E-2. AEC - RUN NO. 1 GB TEST (30 MARCH 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ppby	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ppbv	Run 1 Sample 2 - Amount Detected, mg/m³	Average Concentration - Run 1, ppbv
Dichlorodifluoromethane	0.255	-	ND	-	2.552E-01
Methylchloride	ND	-	ND	-	ND
Dichlorotetrafluoroethane	ND	-	ND	-	ND
Chloroethene	ND	-	ND	-	ND
1,3-Butadiene	0.317	-	ND	-	3.169E-01
Methylbromide	ND	-	ND	-	ND
Ethylchloride	ND	_	ND	-	ND
Trichloromonofluoromethane	0.429	-	ND	_	4.291E-01
Vinylidenechloride	ND	-	ND	-	ND
Methylenechloride	3.091	-	ND	-	3.091E+00
Allylchloride	ND	-	ND	-	ND
1,1,2-Trichloro-1,2,2-			1.12		,,
trifluoroethane	0.104	-	ND	_	1.043E-01
1,1-Dichloroethane	ND	-	ND	-	ND
1,2-Dichloroethene	ND	-	ND	_	ND
Chloroform	ND	-	ND	-	ND
1,2-Dichloroethane	ND	-	ND	-	ND
Methylchloroform	0.065	-	ND	- .	6.532E-02
Benzene	2.351	-	ND	-	2.351E+00
Carbontetrachloride	0.130	-	ND	-	1.301E-01
1,2-Dichloropropane	ND	-	ND	•	ND
Trichloroethylene	ND	-	ND	-	ND
cis 1,3-Dichloro-1-propene	ND	-	ND	-	ND
trans 1,3-Dichloro-1-propene	ND	-	ND		ND
1,1,2-Trichloroethane	ND	-	ND	-	ND
Toluene	0.532	-	ND	_	5.315E-01
1,2-Dibromoethane	ND	-	ND	•	ND
Perchloroethylene	ND	•	ND	•	ND
Chlorobenzene	ND	-	ND	-	ND
Ethylbenzene	0.115	•	ND	-	1.153E-01
m&p-Xylene	0.292	-	ND	-	2.919E-01
Styrene	ND	-	ND	-	ND
1,1,2,2-Tetrachloroethane	ND	-	ND	-	ND
o-Xylene	0.138	-	ND	-	1.384E-01
p-Ethyltoluene	0.080	-	ND	-	8.006E-02
1,3,5-Trimethylbenzene	ND	-	ND	_	ND
1,2,4-Trimethylbenzene	0.194	-	ND	-	1.935E-01
Benzylchloride	ND	~	ND	-	ND
m-Dichlorobenzene	ND	_	ND	-	ND
p-Dichlorobenzene	ND	_	ND	_	ND

TABLE E-2. AEC - RUN NO. 1 GB TEST (30 MARCH 1998)
VOCs and TNMHC Analysis of the Air Sample - Method TO-14 and Method TO-12 Compounds below the DLs are listed as nondetected (ND); compounds in bold are duplicate values Analyzed by: Oregon Graduate Institute

Analyte	Run 1 Sample 1 - Amount Detected, ppbv	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ppbv	Run 1 Sample 2 - Amount Detected, mg/m³	Average Concentration - Run 1, ppbv
o-Dichlorobenzene	ND	-	ND	•	ND
1,2,4-Trichlorobenzene	ND	-	ND	-	ND
Hexachlorobutadiene	ND	-	ND	-	ND
Phenylacetylene	0.116	-	ND	-	1.164E-01
Indane	ND	-	ND	-	ND
2,3-Dihydro-1-methyl-1H-indene	ND	-	ND	-	ND
2,3-Dihydro-4-methyl-1H-indene	ND	-	ND	-	ND
Naphthalene	0.297	-	ND	-	2.967E-01
2-Methylnaphthalene	ND	-	ND	-	ND
1-Methylnaphthalene	ND	-	ND	-	ND
Cyanogen	ND	-	ND	-	ND
Methylnitrite	0.130	-	ND	-	1.301E-01
Acetonitrile	0.112	-	ND	-	1.121E-01
Acrylonitrile	ND	-	ND	-	ND
Nitromethane	0.422	-	ND	-	4.216E-01
Propanenitrile	ND	-	ND	-	ND
2-Methylpropanenitrile	ND	-	ND	-	ND
Pentanenitrile	ND	-	ND	-	ND
Hexanenitrile	ND	-	ND	-	ND
Benzonitrile	ND	-	ND	-	ND
2-Nitrophenol	0.056	-	ND	-	5.620E-02
Acrolein	0.747	-	ND	-	7.469E-01
Acetone	4.834	-	ND	<u>.</u>	4.834E+00
1-Hydroxy-2-propanone	ND	-	ND	-	ND
Furan	0.080	-	ND	-	7.995E-02
2-Propanol	ND	-	ND	-	ND
2-Methylpropanal	ND	-	ND	-	ND ND
1-Propanol	ND	-	ND	-	ND ND
Methacrolein	ND	-	ND ND	-	ND 0.075F.00
Methyl-vinyl Ketone	0.090	-	ND ND	-	8.975E-02
MTBE	ND	-	ND	-	ND ND
2,3-Butanedione	ND 0.100	-	ND	-	1.276E-01
Butanal	0.128	-	ND	-	
2-Butanone	0.582	-	ND	-	5.822E-01 ND
2-Methyl-1,3-dioxolane	ND	-	ND ND	-	ND ND
2-Methylfuran	ND	-		-	ND ND
Tetrahydrofuran	ND 0.133	-	ND	-	1.218E-01
trans-2-Butenal	0.122	-	ND	-	8.268E-01
Acetic Acid	0.827	-	ND	-	8.266E-01
1-Butanol	ND	-	ND	-	טאו ן

TABLE E-2. AEC - RUN NO. 1 GB TEST (30 MARCH 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ppby	Run 1 Sample 1 - Amount Detected, mg/m³	Run 1 Sample 2 - Amount Detected, ppbv	Run 1 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 1, ppbv
2-Pentanone	0.087	-	ND	•	8.662E-02
Pentanal	0.251	-	ND	-	2.513E-01
1,4-Dioxane	ND	-	ND	-	ND
Methyl Methacrylate	ND	-	ND	-	ND
Cyclopentanone	ND	-	ND	_	ND
Hexanal	0.127	-	ND	-	1.273E-01
2-Furaldehyde	0.342	-	ND	-	3.418E-01
Cyclohexanone	ND	-	ND	-	ND
Heptanal	0.148	-	ND	-	1.485E-01
2-Butoxyethanol	ND	-	ND	-	ND
Benzaldehyde	0.446	-	ND	-	4.455E-01
6-Methyl-5-hepten-2-one	ND	-	ND	-	ND
Octanal	0.225	_	ND	_	2.250E-01
Benzofuran	ND	-	ND	-	ND
2-Ethyl-1-hexanol	ND	-	ND	-	ND
Acetophonone	0.059	-	ND	-	5.935E-02
Nonanal	0.276	-	ND	-	2.765E-01
Decanal	0.331	-	ND	-	3.315E-01
Carbonyl Sulfide	0.156	-	ND	-	1.558E-01
Carbon Disulfide	12.895	-	ND	•	1.289E+01
Thiophene	0.083	-	ND	-	8.281E-02
Dimethyldisulfide	ND	-	ND	-	ND

TABLE E-3. AEC - RUN NO. 2 GB TEST (30 MARCH 1998)

	Run 2 Sample 1 - Amount Detected,	Run 2 Sample 1 - Amount Detected,	Run 2 Sample 2 - Amount Detected,	Run 2 Sample 2 - Amount Detected,	Average Concentration -
Analyte	ug/m³	mg/m³	ug/m³	mg/m³	Run 2, mg/m ³
TNMHC	193.00	1.930E-01	ND	ND	1.930E-01
Ethane	3.40	3.400E-03	ND	ND	3.400E-03
Ethylene	46.60	4.660E-02	ND	ND	4.660E-02
Acetylene	57.10	5.710E-02	ND	ND	5.710E-02
Propane	2.30	2.300E-03	ND	ND	2.300E-03
Propene	10.20	1.020E-02	ND	ND	1.020E-02
i-Butane	0.40	4.000E-04	ND	ND	4.000E-04
i-Butene	1.00	1.000E-03	ND	ND	1.000E-03
1-Butene	1.70	1.700E-03	ND	ND	1.700E-03
1,3-Butadiene	1.40	1.400E-03	ND	ND	1.400E-03
n-Butane	0.70	7.000E-04	ND	ND	7.000E-04
trans-2-Butene	3.50	3.500E-03	ND	ND	3.500E-03
2,2-Dimethylpropane	ND	ND	ND	ND	ND
cis-2-Butene	0.30	3.000E-04	ND	ND	3.000E-04
3-Methyl-1-butene	0.20	2.000E-04	ND	ND	2.000E-04
i-Pentane	0.50	5.000E-04	ND	ND	5.000E-04
1-Pentene	ND	ND	ND	ND	ND
2-Methyl-1-butene	ND	ND	ND	ND	ND
n-Pentane	0.50	5.000E-04	ND	ND	5.000E-04
Isoprene	ND	ND	ND	ND	ND
trans-2-Pentene	ND	ND	ND	ND	ND
cis-2-Pentene	ND	ND	ND	ND	ND
2-Methyl-2-butene	ND	ND	ND	ND	ND
2,2-Dimethylbutane	0.20	2.000E-04	ND	ND	2.000E-04
Cyclopentene	ND	ND	ND	ND	ND
4-Methyl-1-pentene	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND
2,3-Dimethylbutane	ND	ND	ND	ND	ND
cis-4-Methyl-2-pentene	ND	ND	ND	ND	ND
2-Methylpentane	0.20	2.000E-04	ND	ND	2.000E-04
3-Methylpentane	ND	ND	ND	ND	ND
2-Methyl-1-pentene	ND	ND	ND	ND	ND
1-Hexene	0.10	1.000E-04	ND	ND	1.000E-04
n-Hexane	0.20	2.000E-04	ND	ND	2.000E-04
trans-2-Hexene	ND	ND	ND	ND	ND
2-Methyl-2-pentene	ND	ND	ND	ND	ND
cis-2-Hexene	ND	ND	ND	ND	ND
Methylcyclopentane	0.10	1.000E-04	ND	ND	1.000E-04
2,4-Dimethylpentane	0.20	2.000E-04	ND	ND	2.000E-04
Benzene	12.30	1.230E-02	ND	ND	1.230E-02

TABLE E-3. AEC - RUN NO. 2 GB TEST (30 MARCH 1998)

Analyte	Run 2 Sample 1 - Amount Detected, ug/m³	Run 2 Sample 1 - Amount Detected, mg/m ³	Run 2 Sample 2 - Amount Detected, ug/m ³	Run 2 Sample 2 - Amount Detected, mg/m³	Average Concentration - Run 2, mg/m ³
Cyclohexane	ND	ND	ND	ND	ND
2-Methylhexane	ND	ND	ND	ND	ND
2,3-Dimethylpentane	ND	ND	ND	ND	ND
3-Methylhexane	ND	ND	ND.	ND	ND
2,2,4-Trimethylpentane	0.80	8.000E-04	ND	ND	8.000E-04
n-Heptane	ND	ND	ND	ND	ND
2,4,4-Trimethyl-1-pentene	ND	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND	ND
2,4,4-Trimethyl-2-pentene	ND	ND	ND	ND	ND
2,5-Dimethylhexane	0.10	1.000E-04	ND	ND	1.000E-04
2,4-Dimethylhexane	0.20	2.000E-04	ND	ND	2.000E-04
2,3,4-Trimethylpentane	0.20	2.000E-04	ND	ND	2.000E-04
Toluene	3.00	3.000E-03	ND	ND	3.000E-03
2,3-Dimethylhexane	ND ND	ND	ND	ND	ND
2-Methylheptane 3-Ethylhexane	ND ND	ND	ND	ND	ND ND
2,2-Dimethylheptane	ND ND	ND ND	ND ND	ND	ND
2,2,4-Trimethylhexane	0.20	2.000E-04	ND	ND ND	ND 2.000E-04
n-Octane	0.10	1.000E-04	ND	ND	1.000E-04
Ethylcyclohexane	ND ND	ND	ND.	ND	ND
Ethylbenzene	0.50	5.000E-04	ND	ND	5.000E-04
m-Xylene & p-Xylene	1.70	1.700E-03	ND	ND	1.700E-03
Styrene	0.70	7.000E-04	ND	ND	7.000E-04
o-Xylene	0.70	7.000E-04	ND	ND	7.000E-04
n-Nonane	0.40	4.000E-04	ND	ND	4.000E-04
i-Propylbenzene	ND	ND	ND	ND	ND
n-Propylbenzene	0.10	1.000E-04	ND	ND	1.000E-04
p-Ethyltoluene	0.50	5.000E-04	ND	ND	5.000E-04
m-Ethyltoluene	0.30	3.000E-04	ND	ND	3.000E-04
1,3,5-Trimethylbenzene	0.40	4.000E-04	ND	ND	4.000E-04
o-Ethyltoluene	0.20	2.000E-04	ND	ND	2.000E-04
1,2,4-Trimethylbenzene & sec- Butylbenzene	1.30	1.300E-03	ND	ND	1.300E-03
n-Decane	ND	ND	ND	ND	ND
alpha-Pinene	ND	ND	ND	ND	ND
beta-Pinene	ND	ND	ND	ND	ND
delta 3-Carene	ND	ND	ND	ND	ND
d-Limonene	ND	ND	ND	ND	ND
MTBE	ND	ND	ND	ND	ND
ETBE	ND	ND	ND	ND	ND

TABLE E-4. AEC - RUN NO. 2 GB TEST (30 MARCH 1998)

Analyte	Run 2 Sample 1 - Amount Detected, ppbv	Run 2 Sample 1 - Amount Detected, mg/m ³	Run 2 Sample 2 - Amount Detected, ppbv	Run 2 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 2, ppbv
Dichlorodifluoromethane	0.168	-	ND	-	1.677E-01
Methylchloride	ND	-	ND	-	ND
Dichlorotetrafluoroethane	ND	-	ND	-	ND
Chloroethene	ND	-	ND	-	ND
1,3-Butadiene	0.634	-	ND	-	6.339E-01
Methylbromide	ND	-	ND	-	ND
Ethylchloride	ND	-	ND	-	ND
Trichloromonofluoromethane	0.448	-	ND	-	4.481E-01
Vinylidenechloride	ND	-	ND	•	ND
Methylenechloride	1.933	-	ND	-	1.933E+00
Allylchloride	ND	-	ND	-	ND
1,1,2-Trichloro-1,2,2-					
trifluoroethane	0.115	-	ND	-	1.146E-01
1,1-Dichloroethane	ND	-	ND	-	ND
1,2-Dichloroethene	ND	-	ND	-	ND
Chloroform	ND	-	ND	-	ND
1,2-Dichloroethane	ND	-	ND	-	ND
Methylchloroform	0.066	-	ND	-	6.630E-02
Benzene	3.856	-	ND	-	3.856E+00
Carbontetrachloride	0.125	-	ND	-	1.250E-01
1,2-Dichloropropane	ND	-	ND	-	ND
Trichloroethylene	ND	-	ND	-	ND
cis 1,3-Dichloro-1-propene	ND	-	ND	-	ND
trans 1,3-Dichloro-1-propene	ND	•	ND	-	ND
1,1,2-Trichloroethane	ND		ND	-	ND
Toluene	0.797	•	ND	-	7.973E-01
1,2-Dibromoethane	ND	-	ND	-	ND
Perchloroethylene	ND	-	ND	-	ND
Chlorobenzene	ND	-	ND	-	ND
Ethylbenzene	0.115	-	ND	-	1.153E-01
m&p-Xylene	0.363	-	ND	-	3.630E-01
Styrene	0.091	-	ND	-	9.144E-02
1,1,2,2-Tetrachloroethane	ND	-	ND	-	ND
o-Xylene	0.161	-	ND	-	1.615E-01
p-Ethyltoluene	0.097	-	ND	<u>-</u>	9.689E-02
1,3,5-Trimethylbenzene	0.062	-	ND	-	6.157E-02
1,2,4-Trimethylbenzene	0.160	-	ND	<u>-</u>	1.604E-01
Benzylchloride	ND	-	ND	-	ND
m-Dichlorobenzene	ND	-	ND ND	-	ND
p-Dichlorobenzene	ND	-	l ND	-	ND

TABLE E-4. AEC - RUN NO. 2 GB TEST (30 MARCH 1998)

Analyte	Run 2 Sample 1 - Amount Detected, ppbv	Run 2 Sample 1 - Amount Detected, mg/m ³	Run 2 Sample 2 - Amount Detected, ppby	Run 2 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 2, ppbv
o-Dichlorobenzene	ND	-	ND	-	ND
1,2,4-Trichlorobenzene	ND	-	ND	-	ND
Hexachlorobutadiene	ND	-	ND	-	ND
Phenylacetylene	0.218	-	ND	•	2.176E-01
Indane	ND	-	ND	-	ND
2,3-Dihydro-1-methyl-1H-indene	ND	-	ND	_	ND
2,3-Dihydro-4-methyl-1H-indene	ND	-	ND	-	ND
Naphthalene	0.410	-	ND	-	4.099E-01
2-Methylnaphthalene	ND	-	ND	-	ND
1-Methylnaphthalene	ND	-	ND	-	ND
Cyanogen	ND	-	ND	-	ND
Methylnitrite	0.286	-	ND	-	2.856E-01
Acetonitrile	0.217	-	ND	-	2.169E-01
Acrylonitrile	0.086	-	ND	-	8.553E-02
Nitromethane	0.708	-	ND		7.081E-01
Propanenitrile	ND	-	ND		ND
2-Methylpropanenitrile	ND	-	ND	-	ND
Pentanenitrile	ND	-	ND	-	ND
Hexanenitrile	ND	-	ND	-	ND
Benzonitrile	0.060	-	ND	-	5.962E-02
2-Nitrophenol	0.053	-	ND	-	5.304E-02
Acrolein	1.844	-	ND	-	1.844E+00
Acetone	6.691	-	ND	-	6.691E+00
1-Hydroxy-2-propanone	ND	-	ND	-	ND
Furan	0.215	-	ND	•	2.146E-01
2-Propanol	ND	-	ND	-	ND
2-Methylpropanal	ND	-	ND	-	ND
1-Propanol	ND		ND	-	ND
Methacrolein	0.070	-	ND	•	6.977E-02
Methyl-vinyl Ketone	0.192	-	ND	-	1.920E-01
MTBÉ	ND	-	ND	-	ND
2,3-Butanedione	ND	-	ND	_	ND
Butanal	0.111	-	ND	-	1.109E-01
2-Butanone	0.910	-	ND	-	9.104E-01
2-Methyl-1,3-dioxolane	ND	-	ND	-	ND
2-Methylfuran	ND	•	ND		ND
Tetrahydrofuran	ND	-	ND		ND
trans-2-Butenal	0.201	-	ND	-	2.009E-01
Acetic Acid	0.861	-	ND	-	8.608E-01
1-Butanol	ND	-	ND		ND

TABLE E-4. AEC - RUN NO. 2 GB TEST (30 MARCH 1998)

Analyte	Run 2 Sample 1 - Amount Detected, ppbv	Run 2 Sample 1 - Amount Detected, mg/m ³	Run 2 Sample 2 - Amount Detected, ppbv	Run 2 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 2, ppbv
2-Pentanone	0.139	-	ND	-	1.393E-01
Pentanal	0.338	-	ND	-	3.377E-01
1,4-Dioxane	ND	-	ND	-	ND
Methyl Methacrylate	ND	-	ND	-	ND
Cyclopentanone	ND	-	ND	-	ND
Hexanal	0.143	-	ND	-	1.432E-01
2-Furaldehyde	0.576	-	ND	-	5.760E-01
Cyclohexanone	ND	-	ND	-	ND
Heptanal	0.148	-	ND	-	1.484E-01
2-Butoxyethanol	ND	-	ND	-	ND
Benzaldehyde	0.516	-	ND	-	5.162E-01
6-Methyl-5-hepten-2-one	ND	-	ND	-	ND
Octanal	0.237	-	ND	-	2.370E-01
Benzofuran	0.070	-	ND	-	6.970E-02
2-Ethyl-1-hexanol	ND	-	ND	-	ND
Acetophonone	0.061	-	ND	-	6.076E-02
Nonanal	0.239	-	ND	-	2.393E-01
Decanal	0.258	-	ND	-	2.576E-01
Carbonyl Sulfide	0.167	-	ND	-	1.665E-01
Carbon Disulfide	21.875	-	ND	-	2.187E+01
Thiophene	0.138	-	ND	-	1.380E-01
Dimethyldisulfide	ND	-	ND	-	ND

TABLE E-5. AEC - BACKGROUND RUN NO. 1-2 GB TEST (30 MARCH 1998)

VOCs and TNMHC Analysis of the Air Sample - Method TO-14 and Method TO-12

Compounds below the DLs are listed as nondetected (ND); compounds in bold are duplicate values

Analyzed by: Oregon Graduate Institute

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m³	Run 2 Background Sample - Amount Detected, ug/m³ or ppbv	Run 2 Background Sample - Amount Detected, mg/m³	Average Background Concentration - Run 1-2, mg/m³
TNMHC	-	19.70	1.970E-02	23.60	2.360E-02	2.165E-02
Ethane	30	2.30	2.300E-03	3.10	3.100E-03	2.700E-03
Ethylene	28	0.10	1.000E-04	0.10	1.000E-04	1.000E-04
Acetylene	26	0.70	7.000E-04	0.70	7.000E-04	7.000E-04
Propane	44	1.80	1.800E-03	1.50	1.500E-03	1.650E-03
Propene	42	ND	ND	ND	ND	ND
i-Butane	58	0.40	4.000E-04	0.40	4.000E-04	4.000E-04
i-Butene	56	ND	ND .	ND	ND	ND
1-Butene	56	ND	ND	ND	ND	ND
1,3-Butadiene	54	ND	ND	ND	ND	ND
n-Butane	58	0.80	8.000E-04	0.70	7.000E-04	7.500E-04
trans-2-Butene	56	ND	ND	ND	ND	ND
2,2-Dimethylpropane	72	ND	ND	ND	ND	ND
cis-2-Butene	56	ND	ND	ND	ND	ND
3-Methyl-1-butene	70	ND	ND	ND	ND	ND
i-Pentane	72	0.30	3.000E-04	0.40	4.000E-04	3.500E-04
1-Pentene	70	ND	ND	ND	ND	ND
2-Methyl-1-butene	70	ND	ND	ND	ND	ND
n-Pentane	72	0.20	2.000E-04	0.30	3.000E-04	2.500E-04
Isoprene	68	0.10	1.000E-04	0.10	1.000E-04	1.000E-04
trans-2-Pentene	70	ND	ND	ND	ND	ND
cis-2-Pentene	70	ND	ND	ND	ND	ND
2-Methyl-2-butene	70	ND	ND	ND	ND	ND
2,2-Dimethylbutane	86	0.10	1.000E-04	ND	ND	1.000E-04
Cyclopentene	68	ND	ND	ND	ND	ND
4-Methyl-1-pentene	84	ND	ND	ND	ND	ND
Cyclopentane	70	ND	ND	ND	ND	ND
2,3-Dimethylbutane	86	ND	ND	ND	ND	ND
cis-4-Methyl-2-pentene	84	ND	ND	ND	ND	ND
2-Methylpentane	86	0.10	1.000E-04	0.10	1.000E-04	1.000E-04
3-Methylpentane	86	0.10	1.000E-04	ND	ND	1.000E-04
2-Methyl-1-pentene	84	ND	ND	ND	ND	ND
1-Hexene	84	ND	ND	ND	ND	ND .
n-Hexane trans-2-Hexene	86	0.20	2.000E-04	0.20	2.000E-04	2.000E-04
2-Methyl-2-pentene	84	ND	ND ND	ND	ND ND	ND ND
cis-2-Hexene	84	ND	ND ND	ND	ND	ND
Methylcyclopentane	84	ND 0.10	ND	ND 0.10	ND	ND
2,4-Dimethylpentane	. 84	0.10	1.000E-04	0.10	1.000E-04	1.000E-04
Benzene	100 78	0.10	1.000E-04	ND 0.60	ND 6 000E 04	1.000E-04
Cyclohexane	84	0.50 ND	5.000E-04	0.60	6.000E-04	5.500E-04
2-Methylhexane	100	ND ND	ND ND	ND ND	ND ND	ND ND
2,3-Dimethylpentane				ND ND	ND	ND 1 000F 04
3-Methylhexane	100 100	0.10	1.000E-04	ND ND	ND ND	1.000E-04
2,2,4-Trimethylpentane	114	0.20	2.000E-04	ND 0.50	ND 5 000E 04	2.000E-04
		0.20	2.000E-04	0.50	5.000E-04	3.500E-04
n-Heptane	100	0.10	1.000E-04	ND	ND	1.000E-04

TABLE E-5. AEC - BACKGROUND RUN NO. 1-2 GB TEST (30 MARCH 1998)
VOCs and TNMHC Analysis of the Air Sample - Method TO-14 and Method TO-12
Compounds below the DLs are listed as nondetected (ND); compounds in bold are duplicate values Analyzed by: Oregon Graduate Institute

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m ³ or ppby	Run 1 Background Sample - Amount Detected, mg/m³	Run 2 Background Sample - Amount Detected, ug/m ³ or ppbv	Run 2 Background Sample - Amount Detected, mg/m³	Average Background Concentration - Run 1-2, mg/m³
2,4,4-Trimethyl-1-pentene	112	ND	ND	ND	ND	ND
Methylcyclohexane	98	ND	ND	ND	ND	ND
2,4,4-Trimethyl-2-pentene	112	ND	ND	ND	ND	ND
2,5-Dimethylhexane	114	ND	ND	0.10	1.000E-04	1.000E-04
2,4-Dimethylhexane	114	ND	ND	0.10	1.000E-04	1.000E-04
2,3,4-Trimethylpentane	114	0.10	1.000E-04	ND	ND	1.000E-04
Toluene	92	0.50	5.000E-04	0.70	7.000E-04	6.000E-04
2,3-Dimethylhexane	114	ND	ND	ND	ND	ND
2-Methylheptane	111	ND	ND	ND	ND	ND
3-Ethylhexane	114	ND	ND	ND	ND	ND
2,2-Dimethylheptane	128	ND	ND	ND	ND	ND
2,2,4-Trimethylhexane	128	ND	ND	ND	ND	ND
n-Octane	114	ND	ND	ND	ND	ND
Ethylcyclohexane	112	ND	ND	ND	ND	ND
Ethylbenzene	160	0.10	1.000E-04	0.10	1.000E-04	1.000E-04
m-Xylene & p-Xylene	106	0.50	5.000E-04	0.80	8.000E-04	6.500E-04
Styrene	104	ND	ND	ND	ND	ND
o-Xylene	106	0.20	2.000E-04	0.30	3.000E-04	2.500E-04
n-Nonane	128	ND	ND	ND	ND	ND
i-Propylbenzene	120	ND	ND	ND	ND	ND
n-Propylbenzene	120	ND	ND	0.10	1.000E-04	1.000E-04
p-Ethyltoluene	120	ND	ND	0.30	3.000E-04	3.000E-04
m-Ethyltoluene	120	ND	ND	0.10	1.000E-04	1.000E-04
1,3,5-Trimethylbenzene	120	ND	ND	0.20	2.000E-04	2.000E-04
o-Ethyltoluene	120	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene & sec-						
Butylbenzene	120	0.50	5.000E-04	0.60	6.000E-04	5.500E-04
n-Decane	142	ND	ND	ND	ND	ND
alpha-Pinene	136	ND	ND	ND	ND	ND
beta-Pinene	136	ND	ND	ND	ND	ND ND
delta 3-Carene	136	ND	ND	ND	ND	ND
d-Limonene	136	ND	ND	ND	ND	ND
MTBE	88	ND	ND	ND	ND	ND ND
ETBE	102.0	ND	ND	ND	ND	ND ND
Dichlorodifluoromethane	120.0	0.31	1.536E-03	0.26	1.290E-03	1.413E-03
Methylchloride	50.0	ND	ND	ND	ND	ND ND
Dichlorotetrafluoroethane	171.0	ND	ND	ND	ND	ND
Chloroethene	63.0	ND	ND	ND	ND	ND
1,3-Butadiene	54.0	ND	ND	ND .	ND	ND
Methylbromide	95.0	ND	ND	ND	ND ND	ND ND
Ethylchloride	64.5	ND	ND	ND ND	ND	ND
Trichloromonofluoromethane	137.0	0.43	2.471E-03	0.45	2.562E-03	2.517E-03
Vinylidenechloride	97.0	ND	ND	ND	ND	ND ND
Methylenechloride	85.0	0.10	3.684E-04	0.08	2.704E-04	3.194E-04
Allylchloride	76.5	ND	ND	ND	l ND	ND

TABLE E-5. AEC - BACKGROUND RUN NO. 1-2 GB TEST (30 MARCH 1998)

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m³	Run 2 Background Sample - Amount Detected, ug/m³ or ppbv	Run 2 Background Sample - Amount Detected, mg/m ³	Average Background Concentration - Run 1-2, mg/m ³
1,1,2-Trichloro-1,2,2-	i i i i i i i i i i i i i i i i i i i	PPO	9/	PP-		
trifluoroethane	188.0	0.10	8.132E-04	0.11	8.515E-04	8.324E-04
11.1-Dichloroethane	99.0	ND	8.132E-04 ND	ND	8.515E-04 ND	0.324E-04 ND
1,2-Dichloroethane	97.0	ND	ND ND	ND ND	ND ND	ND ND
Chloroform	119.0	ND	ND ND	ND ND	ND	ND ND
1.2-Dichloroethane	99.0	ND ND	ND ND	ND ND	ND ND	ND ND
	133.0	0.06	3.433E-04	0.07	3.608E-04	3.521E-04
Methylchloroform	78.0					
Benzene Carbontetrachloride		0.16	5.086E-04	0.19	6.103E-04	5.594E-04
,	154.0	0.11	7.055E-04	0.12	7.468E-04	7.262E-04
1,2-Dichloropropane Trichloroethylene	113.0	ND ND	ND ND	ND ND	ND ND	ND ND
cis 1,3-Dichloro-1-propene	133.0 111.0	ND ND	ND ND	ND ND	ND	ND ND
trans 1,3-Dichloro-1-propene	111.0	ND ND	ND ND	ND	ND ND	ND ND
1,1,2-Trichloroethane	133.0	ND ND	ND ND	ND ND	ND ND	ND ND
Toluene	92.0	0.13	5.086E-04	0.19	7.120E-04	6.103E-04
1.2-Dibromoethane	188.0	0.13 ND		ND ND		
Perchloroethylene	166.0	ND ND	ND ND	ND ND	ND ND	ND ND
Chlorobenzene	113.0	ND ND	ND ND	ND ND	ND ND	ND ND
Ethylbenzene	160.0	ND ND	ND ND	ND ND	ND ND	ND ND
m&p-Xylene	106.0	0.11	4.827E-04	0.16	6.957E-04	5.892E-04
Styrene	104.0	ND	ND	ND	ND	0.892E-04 ND
1,1,2,2-Tetrachloroethane	168.0	ND	ND ND	ND ND	ND ND	ND ND
o-Xylene	106.0	ND ND	ND ND	0.07	3.051E-04	3.051E-04
p-Ethyltoluene	120.0	ND ND	ND ND	ND	ND	0.051E-04
1,3,5-Trimethylbenzene	120.0	ND ND	ND ND	ND	ND ND	ND ND
1,2,4-Trimethylbenzene	120.0	0.09	4.472E-04	0.12	5.753E-04	5.112E-04
Benzylchloride	127.0	ND	ND	ND	ND	ND ND
m-Dichlorobenzene	147.0	ND	ND	ND	ND	ND ND
p-Dichlorobenzene	147.0	ND	ND ND	ND	ND	ND ND
o-Dichlorobenzene	147.0	ND	ND ND	ND	ND	ND
1,2,4-Trichlorobenzene	181.0	ND	ND ND	ND	ND	ND ND
Hexachlorobutadiene	261.0	ND	ND ND	ND	ND	ND ND
Phenylacetylene	102.0	ND	ND ND	ND	ND	ND
Indane	118.0	ND	ND	ND	ND	ND
2,3-Dihydro-1-methyl-1H-indene	132.0	ND	ND	ND	ND	ND
2,3-Dihydro-4-methyl-1H-indene	132.0	ND	ND	ND	ND	ND ND
Naphthalene	128.0	0.08	4.245E-04	0.09	5.018E-04	4.632E-04
2-Methylnaphthalene	142.0	ND	ND	ND	ND	ND
1-Methylnaphthalene	142.0	ND	ND	ND	ND	ND ND
Cyanogen	52	ND	ND	ND	ND	ND
Methylnitrite	61.0	ND	ND	ND	ND	ND ND
Acetonitrile	41.0	. ND	ND	ND	ND	ND ND
Acrylonitrile	53.0	ND	ND	ND	ND	ND
Nitromethane	61.0	ND	ND	ND	ND	ND
Propanenitrile	55.0	ND	ND	ND	ND	ND
2-Methylpropanenitrile	69.0	ND	ND	ND	ND	ND

TABLE E-5. AEC - BACKGROUND RUN NO. 1-2 GB TEST (30 MARCH 1998)

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m³	Run 2 Background Sample - Amount Detected, ug/m³ or ppbv	Run 2 Background Sample - Amount Detected, mg/m ³	Average Background Concentration - Run 1-2, mg/m ³
Pentanenitrile	83.0	ND	ND	ND	ND	ND
Hexanenitrile	97.0	ND ND	ND	ND ND	ND	ND
Benzonitrile	103.0	ND ND	ND	ND	ND	ND ND
2-Nitrophenol	139.0	ND ND	ND	ND	ND	ND
Acrolein	56.0	ND ND	ND	ND ND	ND	ND ND
Acetone	56.0	3.05	7.108E-03	2.35	5.477E-03	6.292E-03
1-Hydroxy-2-propanone	74.0	ND	7.108E-03	ND	ND	ND
Furan	68.0	ND ND	ND ND	ND ND	ND ND	ND ND
2-Propanol	60.0	ND ND	ND	ND ND	ND	ND ND
2-Propanol 2-Methylpropanal	74.0	ND ND	ND ND	ND ND	ND ND	ND ND
1-Propanol	60.0	0.35	8.791E-04	ND ND	ND ND	8.791E-04
Methacrolein	70.0	ND	ND	ND ND	ND ND	8.791E-04 ND
(<u> </u>	70.0	ND ND	ND ND	ND ND	ND ND	ND ND
Methyl-vinyl Ketone MTBE	88.0	ND ND	ND ND	ND ND	ND	ND ND
2,3-Butanedione	86.0	ND ND	ND ND	ND ND	ND	ND ND
Butanal	72.0	0.11	3.214E-04	0.07	2.155E-04	2.684E-04
2-Butanone	72.0	ND	ND	0.29	8.793E-04	8.793E-04
2-Methyl-1,3-dioxolane	88.0	ND ND	ND ND	ND	ND	ND
2-Methylfuran	82.0	ND ND	ND	ND	ND	ND
Tetrahydrofuran	72.0	ND ND	ND	ND ND	ND	ND ND
trans-2-Butenal	70.0	ND ND	ND	ND	ND	ND ND
Acetic Acid	60.0	0.88	2.195E-03	0.48	1.200E-03	1.697E-03
1-Butanol	74.0	0.30	9.110E-04	ND	ND	9.110E-04
2-Pentanone	86.0	ND	ND	ND	ND	ND ND
Pentanal	86.0	0.22	7.957E-04	0.31	1.116E-03	9.559E-04
1.4-Dioxane	88.0	ND	ND	ND	ND	ND
Methyl Methacrylate	100.0	ND	ND ND	ND	ND	ND ND
Cyclopentanone	84.0	ND ND	ND	ND	ND ND	ND
Hexanal	100.0	0.08	3.526E-04	0.19	7.794E-04	5.660E-04
2-Furaldehyde	96.0	ND	ND	ND ND	ND	ND
Cyclohexanone	98.0	ND	ND	ND	ND	ND
Heptanal	114.0	0.07	3.273E-04	0.15	7.015E-04	5.144E-04
2-Butoxyethanol	118.0	ND	ND	ND	ND	ND
Benzaldehyde	106.0	0.16	6.918E-04	0.20	8.636E-04	7.777E-04
6-Methyl-5-hepten-2-one	126.0	ND	ND	ND	ND	ND
Octanal	128.0	0.19	1.001E-03	0.18	9.545E-04	9.778E-04
Benzofuran	118.0	ND ND	ND	ND	ND	ND
2-Ethyl-1-hexanol	120.0	ND	ND	ND	ND	ND
Acetophonone	120.0	ND ND	ND	ND	ND	ND
Nonanal	142.0	0.31	1.841E-03	0.23	1.368E-03	1.605E-03
Decanal	156.0	0.30	1.958E-03	0.11	7.454E-04	1.352E-03
Carbonyl Sulfide	60.0	0.06	1.583E-04	0.09	2.178E-04	1.881E-04
Carbon Disulfide	76.0	0.15	4.600E-04	0.14	4.467E-04	4.533E-04
Thiophene	84.0	ND ND	ND	ND	ND	ND
Dimethyldisulfide	94.0	ND	ND	ND	ND	ND

TABLE E-6. AEC - RUN NO. 1-2 GB TEST (30 MARCH 1998)

VOCs and TNMHC Analysis of the Air Sample - Method TO-14 and Method TO-12

Compounds below the DLs are listed as nondetected (ND); compounds in bold are duplicate values Analyzed by: Oregon Graduate Institute

The companies of the co	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppbv	Detection Limit -Amount Detected, mg/m ³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m ³
TNMHC	-	0.1	1.000E-04	1.000E-04	1.000E-04
Ethane	30	0.1	1.000E-04	1.000E-04	1.000E-04
Ethylene	28	0.1	1.000E-04	1.000E-04	1.000E-04
Acetylene	26	0.1	1.000E-04	1.000E-04	1.000E-04
Propane	44	0.1	1.000E-04	1.000E-04	1.000E-04
Propene	42	0.1	1.000E-04	1.000E-04	1.000E-04
i-Butane	58	0.1	1.000E-04	1.000E-04	1.000E-04
i-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
1-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
1,3-Butadiene	54	0.1	1.000E-04	1.000E-04	1.000E-04
n-Butane	58	0.1	1.000E-04	1.000E-04	1.000E-04
trans-2-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
2,2-Dimethylpropane	72	0.1	1.000E-04	1.000E-04	1.000E-04
cis-2-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
3-Methyl-1-butene	70	0.1	1.000E-04	1.000E-04	1.000E-04
i-Pentane	72	0.1	1.000E-04	1.000E-04	1.000E-04
1-Pentene	70	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-1-butene	70	0.1	1.000E-04	1.000E-04	1.000E-04
n-Pentane	70	0.1	1.000E-04	1.000E-04	1.000E-04
Isoprene	68	0.1	1.000E-04	1.000E-04	1.000E-04
trans-2-Pentene	70	0.1	1.000E-04	1.000E-04	1.000E-04
cis-2-Pentene	70	0.1	1.000E-04	1.000E-04	
2-Methyl-2-butene	70	0.1			1.000E-04
2,2-Dimethylbutane	86	0.1	1.000E-04	1.000E-04	1.000E-04
Cyclopentene	68	0.1	1.000E-04 1.000E-04	1.000E-04	1.000E-04
4-Methyl-1-pentene	84	0.1	1.000E-04	1.000E-04	1.000E-04
Cyclopentane	70			1.000E-04	1.000E-04
2,3-Dimethylbutane	86	0.1 0.1	1.000E-04	1.000E-04	1.000E-04
cis-4-Methyl-2-pentene	84	· · · · · · · · · · · · · · · · · · ·	1.000E-04	1.000E-04	1.000E-04
		0.1	1.000E-04	1.000E-04	1.000E-04
2-Methylpentane	86	0.1	1.000E-04	1.000E-04	1.000E-04
3-Methylpentane	86	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-1-pentene	84	0.1	1.000E-04	1.000E-04	1.000E-04
1-Hexene	84	0.1	1.000E-04	1.000E-04	1.000E-04
n-Hexane	86	0.1	1.000E-04	1.000E-04	1.000E-04
trans-2-Hexene	84	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-2-pentene	84	0.1	1.000E-04	1.000E-04	1.000E-04
cis-2-Hexene	84	0.1	1.000E-04	1.000E-04	1.000E-04
Methylcyclopentane	84	0.1	1.000E-04	1.000E-04	1.000E-04
2,4-Dimethylpentane	100	0.1	1.000E-04	1.000E-04	1.000E-04
Benzene	78	0.1	1.000E-04	1.000E-04	1.000E-04
Cyclohexane	84	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methylhexane	100	0.1	1.000E-04	1.000E-04	1.000E-04

TABLE E-6. AEC - RUN NO. 1-2 GB TEST (30 MARCH 1998)
VOCs and TNMHC Analysis of the Air Sample - Method TO-14 and Method TO-12 Compounds below the DLs are listed as nondetected (ND); compounds in bold are duplicate values Analyzed by: Oregon Graduate Institute

		Detection			
	Molecular	Limit - Amount Detected, ug/m³ or	Detection Limit -Amount Detected,	Average Maximum Detection Limit - Concentration,	Average Minimum Detection Limit - Concentration,
Analyte	Weight	ppbv	mg/m³	mg/m³	mg/m³
2,3-Dimethylpentane	100	0.1	1.000E-04	1.000E-04	1.000E-04
3-Methylhexane	100	0.1	1.000E-04	1.000E-04	1.000E-04
2,2,4-Trimethylpentane	114	0.1	1.000E-04	1.000E-04	1.000E-04
n-Heptane	100	0.1	1.000E-04	1.000E-04	1.000E-04
2,4,4-Trimethyl-1-pentene	112	0.1	1.000E-04	1.000E-04	1.000E-04
Methylcyclohexane	98	0.1	1.000E-04	1.000E-04	1.000E-04
2,4,4-Trimethyl-2-pentene	112	0.1	1.000E-04	1.000E-04	1.000E-04
2,5-Dimethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2,4-Dimethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2,3,4-Trimethylpentane	114	0.1	1.000E-04	1.000E-04	1.000E-04
Toluene	92	0.1	1.000E-04	1.000E-04	1.000E-04
2,3-Dimethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methylheptane	111	0.1	1.000E-04	1.000E-04	1.000E-04
3-Ethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2,2-Dimethylheptane	128	0.1	1.000E-04	1.000E-04	1.000E-04
2,2,4-Trimethylhexane	128	0.1	1.000E-04	1.000E-04	1.000E-04
n-Octane	114	0.1	1.000E-04	1.000E-04	1.000E-04
Ethylcyclohexane	112	0.1	1.000E-04	1.000E-04	1.000E-04
Ethylbenzene	160	0.1	1.000E-04	1.000E-04	1.000E-04
m-Xylene & p-Xylene	106	0.1	1.000E-04	1.000E-04	1.000E-04
Styrene	104	0.1	1.000E-04	1.000E-04	1.000E-04
o-Xylene	106	0.1	1.000E-04	1.000E-04	1.000E-04
n-Nonane	128	0.1	1.000E-04	1.000E-04	1.000E-04
i-Propylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
n-Propylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
p-Ethyltoluene	120	0.1	1.000E-04	1.000E-04	1.000E-04
m-Ethyltoluene	120	0.1	1.000E-04	1.000E-04	1.000E-04
1,3,5-Trimethylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
o-Ethyltoluene	120	0.1	1.000E-04	1.000E-04	1.000E-04
1,2,4-Trimethylbenzene & sec-					
Butylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
n-Decane	142	0.1	1.000E-04	1.000E-04	1.000E-04
alpha-Pinene	136	0.1	1.000E-04	1.000E-04	1.000E-04
beta-Pinene	136	0.1	1.000E-04	1.000E-04	1.000E-04
delta 3-Carene	136	0.1	1.000E-04	1.000E-04	1.000E-04
d-Limonene	136	0.1	1.000E-04	1.000E-04	1.000E-04
MTBE	88	0.1	1.000E-04	1.000E-04	1.000E-04
ETBE	102.0	0.1	1.000E-04	1.000E-04	1.000E-04
Dichlorodifluoromethane	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Methylchloride	50.0	0.1	2.080E-04	2.080E-04	2.080E-04
Dichlorotetrafluoroethane	171.0	0.1	7.114E-04	7.114E-04	7.114E-04

TABLE E-6. AEC - RUN NO. 1-2 GB TEST (30 MARCH 1998)

VOCs and TNMHC Analysis of the Air Sample - Method TO-14 and Method TO-12

Compounds below the DLs are listed as nondetected (ND); compounds in bold are duplicate values Analyzed by: Oregon Graduate Institute

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppbv	Detection Limit -Amount Detected, mg/m ³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
Chloroethene	63.0	0.1	2.621E-04	2.621E-04	2.621E-04
1,3-Butadiene	54.0	0.1	2.246E-04	2.246E-04	2.246E-04
Methylbromide	95.0	0.1	3.952E-04	3.952E-04	3.952E-04
Ethylchloride	64.5	0.1	2.683E-04	2.683E-04	2.683E-04
Trichloromonofluoromethane	137.0	0.1	5.699E-04	5.699E-04	5.699E-04
Vinylidenechloride	97.0	0.1	4.035E-04	4.035E-04	4.035E-04
Methylenechloride	85.0	0.1	3.536E-04	3.536E-04	3.536E-04
Allylchloride	76.5	0.1	3.182E-04	3.182E-04	3.182E-04
1,1,2-Trichloro-1,2,2-					
trifluoroethane	188.0	0.1	7.821E-04	7.821E-04	7.821E-04
1,1-Dichloroethane	99.0	0.1	4.118E-04	4.118E-04	4.118E-04
1,2-Dichloroethene	97.0	0.1	4.035E-04	4.035E-04	4.035E-04
Chloroform	119.0	0.1	4.950E-04	4.950E-04	4.950E-04
1,2-Dichloroethane	99.0	0.1	4.118E-04	4.118E-04	4.118E-04
Methylchloroform	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
Benzene	78.0	0.1	3.245E-04	3.245E-04	3.245E-04
Carbontetrachloride	154.0	0.1	6.406E-04	6.406E-04	6.406E-04
1,2-Dichloropropane	113.0	0.1	4.701E-04	4.701E-04	4.701E-04
Trichloroethylene	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
cis 1,3-Dichloro-1-propene	111.0	0.1	4.618E-04	4.618E-04	4.618E-04
trans 1,3-Dichloro-1-propene	111.0	0.1	4.618E-04	4.618E-04	4.618E-04
1,1,2-Trichloroethane	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
Toluene	92.0	0.1	3.827E-04	3.827E-04	3.827E-04
1,2-Dibromoethane	188.0	0.1	7.821E-04	7.821E-04	7.821E-04
Perchloroethylene	166.0	0.1	6.906E-04	6.906E-04	6.906E-04
Chlorobenzene	113.0	0.1	4.701E-04	4.701E-04	4.701E-04
Ethylbenzene	160.0	0.1	6.656E-04	6.656E-04	6.656E-04
m&p-Xylene	106.0	0.1	4.410E-04	4.410E-04	4.410E-04
Styrene	104.0	0.1	4.326E-04	4.326E-04	4.326E-04
1,1,2,2-Tetrachloroethane	168.0	0.1	6.989E-04	6.989E-04	6.989E-04
o-Xylene	106.0	0.1	4.410E-04	4.410E-04	4.410E-04
p-Ethyltoluene	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
1,3,5-Trimethylbenzene	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
1,2,4-Trimethylbenzene	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Benzylchloride	127.0	0.1	5.283E-04	5.283E-04	5.283E-04
m-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04	6.115E-04
p-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04	6.115E-04
o-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04	6.115E-04
1,2,4-Trichlorobenzene	181.0	0.1	7.530E-04	7.530E-04	7.530E-04
Hexachlorobutadiene	261.0	0.1	1.086E-03	1.086E-03	1.086E-03
Phenylacetylene	102.0	0.1	4.243E-04	4.243E-04	4.243E-04
Indane	118.0	0.1	4.909E-04	4.909E-04	4.909E-04

TABLE E-6. AEC - RUN NO. 1-2 GB TEST (30 MARCH 1998)
VOCs and TNMHC Analysis of the Air Sample - Method TO-14 and Method TO-12 Compounds below the DLs are listed as nondetected (ND); compounds in bold are duplicate values Analyzed by: Oregon Graduate Institute

A CONTRACTOR AND A SECOND CONTRACTOR AND A SECOND CONTRACTOR AND A SECOND CONTRACTOR AND A SECOND CONTRACTOR A		Detection			
		Limit -		·	
		Amount	Detection	Average Maximum	Average Minimum
		1	Limit -Amount		Detection Limit -
		Detected,	0 8	Concentration,	Concentration,
	Molecular	ug/m³ or	Detected,	i ' 1	
Analyte	Weight	ppbv	mg/m³	mg/m³	mg/m³
2,3-Dihydro-1-methyl-1H-indene	132.0	0.1	5.491E-04	5.491E-04	5.491E-04
2,3-Dihydro-4-methyl-1H-indene	132.0	0.1	5.491E-04	5.491E-04	5.491E-04
Naphthalene	128.0	0.1	5.325E-04	5.325E-04	5.325E-04
2-Methylnaphthalene	142.0	0.1	5.907E-04	5.907E-04	5.907E-04
1-Methylnaphthalene	142.0	0.1	5.907E-04	5.907E-04	5.907E-04
Cyanogen	52	0.1	2.163E-04	2.163E-04	2.163E-04
Methylnitrite	61.0	0.1	2.538E-04	2.538E-04	2.538E-04
Acetonitrile	41.0	0.1	1.706E-04	1.706E-04	1.706E-04
Acrylonitrile	53.0	0.1	2.205E-04	2.205E-04	2.205E-04
Nitromethane	61.0	0.1	2.538E-04	2.538E-04	2.538E-04
Propanenitrile	55.0	0.1	2.288E-04	2.288E-04	2.288E-04
2-Methylpropanenitrile	69.0	0.1	2.870E-04	2.870E-04	2.870E-04
Pentanenitrile	83.0	0.1	3.453E-04	3.453E-04	3.453E-04
Hexanenitrile	97.0	0.1	4.035E-04	4.035E-04	4.035E-04
Benzonitrile	103.0	0.1	4.285E-04	4.285E-04	4.285E-04
2-Nitrophenol	139.0	0.1	5.782E-04	5.782E-04	5.782E-04
Acrolein	56.0	0.1	2.330E-04	2.330E-04	2.330E-04
Acetone	56.0	0.1	2.330E-04	2.330E-04	2.330E-04
1-Hydroxy-2-propanone	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
Furan	68.0	0.1	2.829E-04	2.829E-04	2.829E-04
2-Propanol	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
2-Methylpropanal	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
1-Propanol	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
Methacrolein	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
Methyl-vinyl Ketone	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
MTBE	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
2,3-Butanedione	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
Butanal	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
2-Butanone	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
2-Methyl-1,3-dioxolane	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
2-Methylfuran	82.0	0.1	3.411E-04	3.411E-04	3.411E-04
Tetrahydrofuran	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
trans-2-Butenal	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
Acetic Acid	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
1-Butanol	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
2-Pentanone	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
Pentanal	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
1,4-Dioxane	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
Methyl Methacrylate	100.0	0.1	4.160E-04	4.160E-04	4.160E-04
Cyclopentanone	84.0	0.1	3.494E-04	3.494E-04	3.494E-04
Hexanal	100.0	0.1	4.160E-04	4.160E-04	4.160E-04
2-Furaldehyde	96.0	0.1	3.994E-04	3.994E-04	3.994E-04

TABLE E-6. AEC - RUN NO. 1-2 GB TEST (30 MARCH 1998)
VOCs and TNMHC Analysis of the Air Sample - Method TO-14 and Method TO-12 Compounds below the DLs are listed as nondetected (ND); compounds in bold are duplicate values Analyzed by: Oregon Graduate Institute

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppbv	Detection Limit -Amount Detected, mg/m ³	Average Maximum Detection Limit - Concentration, mg/m ³	Average Minimum Detection Limit - Concentration, mg/m³
Cyclohexanone	98.0	0.1	4.077E-04	4.077E-04	4.077E-04
Heptanal	114.0	0.1	4.742E-04	4.742E-04	4.742E-04
2-Butoxyethanol	118.0	0.1	4.909E-04	4.909E-04	4.909E-04
Benzaldehyde	106.0	0.1	4.410E-04	4.410E-04	4.410E-04
6-Methyl-5-hepten-2-one	126.0	0.1	5.242E-04	5.242E-04	5.242E-04
Octanal	128.0	0.1	5.325E-04	5.325E-04	5.325E-04
Benzofuran	118.0	0.1	4.909E-04	4.909E-04	4.909E-04
2-Ethyl-1-hexanol	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Acetophonone	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Nonanal	142.0	0.1	5.907E-04	5.907E-04	5.907E-04
Decanal	156.0	0.1	6.490E-04	6.490E-04	6.490E-04
Carbonyl Sulfide	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
Carbon Disulfide	76.0	0.1	3.162E-04	3.162E-04	3.162E-04
Thiophene	84.0	0.1	3.494E-04	3.494E-04	3.494E-04
Dimethyldisulfide	94.0	0.1	3.910E-04	3.910E-04	3.910E-04

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GREEN STAR CLUSTER

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TABLE E-1. AEC - RUN NO. 1 GS TEST (31 MARCH 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ug/m³	Run 1 Sample 1 - Amount Detected, mg/m³	Run 1 Sample 2 - Amount Detected, ug/m³	Run 1 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 1, mg/m³
TNMHC	148.60	1.486E-01	ND	ND	1.486E-01
Ethane	5.70	5.700E-03	ND	ND	5.700E-03
Ethylene	23.80	2.380E-02	ND	ND	2.380E-02
Acetylene	25.70	2.570E-02	ND	ND	2.570E-02
Propane	2.40	2.400E-03	ND	ND	2.400E-03
Propene	8.30	8.300E-03	ND	ND	8.300E-03
i-Butane	0.30	3.000E-04	ND	ND	3.000E-04
i-Butene	0.70	7.000E-04	ND	ND ND	7.000E-04
1-Butene	1.30	1.300E-03	ND	ND ND	1.300E-03
1,3-Butadiene	1.60	1.600E-03	ND	ND	1.600E-03
n-Butane	0.70	7.000E-04	ND	ND	7.000E-04
trans-2-Butene	1.40	1.400E-03	ND	ND	1.400E-03
2,2-Dimethylpropane	ND	ND	ND	ND	ND
cis-2-Butene	0.40	4.000E-04	ND	ND	4.000E-04
3-Methyl-1-butene	0.10	1.000E-04	ND	ND	1.000E-04
i-Pentane	0.50	5.000E-04	ND	ND	5.000E-04
1-Pentene	0.20	2.000E-04	ND	ND	2.000E-04
2-Methyl-1-butene	0.20	2.000E-04	ND	ND	2.000E-04
n-Pentane	0.80	8.000E-04	ND	ND	8.000E-04
Isoprene	ND	ND	ND	ND	ND
trans-2-Pentene	ND	ND	ND	ND	ND
cis-2-Pentene	ND	ND	ND	ND	ND
2-Methyl-2-butene	ND	ND	ND	ND	ND
2,2-Dimethylbutane	0.10	1.000E-04	ND	ND	1.000E-04
Cyclopentene	ND	ND	ND	ND	ND
4-Methyl-1-pentene	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND
2,3-Dimethylbutane	0.40	4.000E-04	ND	ND	4.000E-04
cis-4-Methyl-2-pentene	ND	ND	ND	ND	ND
2-Methylpentane	0.70	7.000E-04	ND	ND	7.000E-04
3-Methylpentane	0.80	8.000E-04	ND	ND	8.000E-04
2-Methyl-1-pentene	ND	ND	ND	ND	ND
1-Hexene	1.00	1.000E-03	ND	ND	1.000E-03
n-Hexane	0.70	7.000E-04	ND	ND	7.000E-04
trans-2-Hexene	ND	ND	ND	ND	ND
2-Methyl-2-pentene	ND	ND	ND	ND	ND
cis-2-Hexene	ND	ND	ND	ND	ND
Methylcyclopentane	0.30	3.000E-04	ND	ND	3.000E-04
2,4-Dimethylpentane	0.80	8.000E-04	ND	ND	8.000E-04
Benzene	8.50	8.500E-03	ND	ND	8.500E-03

TABLE E-1. AEC - RUN NO. 1 GS TEST (31 MARCH 1998)

	Run 1 Sample 1 - Amount Detected,	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected,	Run 1 Sample 2 - Amount Detected,	Average Concentration -
Analyte	ug/m³	2.000E-04	ug/m³ ND	mg/m³	Run 1, mg/m³ 2.000E-04
Cyclohexane	0.20 ND	2.000E-04 ND	ND ND	ND ND	2.000E-04 ND
2-Methylhexane 2,3-Dimethylpentane	ND ND	ND	ND ND	ND ND	ND ND
3-Methylhexane	ND	ND ND	ND ND	ND	ND ND
2,2,4-Trimethylpentane	2.90	2.900E-03	ND ND	ND ND	2.900E-03
n-Heptane	0.30	3.000E-04	ND ND	ND	3.000E-04
2,4,4-Trimethyl-1-pentene	ND	ND	ND ND	ND	ND
Methylcyclohexane	0.20	2.000E-04	ND	ND	2.000E-04
2,4,4-Trimethyl-2-pentene	ND	ND	ND	ND	ND ND
2,5-Dimethylhexane	0.20	2.000E-04	ND	ND	2.000E-04
2,4-Dimethylhexane	0.30	3.000E-04	ND	ND	3.000E-04
2,3,4-Trimethylpentane	0.70	7.000E-04	ND	ND	7.000E-04
Toluene	4.30	4.300E-03	ND	ND	4.300E-03
2,3-Dimethylhexane	0.20	2.000E-04	ND	ND	2.000E-04
2-Methylheptane	ND	ND	ND	ND	ND
3-Ethylhexane	ND	ND	ND	ND	ND
2,2-Dimethylheptane	ND	ND	ND	ND	ND
2,2,4-Trimethylhexane	0.20	2.000E-04	ND	ND	2.000E-04
n-Octane	0.20	2.000E-04	ND	ND	2.000E-04
Ethylcyclohexane	ND	ND	ND	ND	ND
Ethylbenzene	0.50	5.000E-04	ND	ND	5.000E-04
m-Xylene & p-Xylene	1.70	1.700E-03	ND	ND ND	1.700E-03
Styrene	0.70	7.000E-04	ND	ND ND	7.000E-04
o-Xylene	0.80	8.000E-04	ND	ND ND	8.000E-04 4.000E-04
n-Nonane	0.40 ND	4.000E-04 ND	ND ND	ND ND	4.000E-04 ND
i-Propylbenzene n-Propylbenzene	0.20	2.000E-04	ND	ND	2.000E-04
p-Ethyltoluene	1.10	1.100E-03	ND	ND	1.100E-03
m-Ethyltoluene	0.50	5.000E-04	ND	ND ND	5.000E-04
1,3,5-Trimethylbenzene	0.40	4.000E-04	ND	ND	4.000E-04
o-Ethyltoluene	0.40	4.000E-04	ND	ND	4.000E-04
1,2,4-Trimethylbenzene & sec-	0.10	1.0002 01	1,12		
Butylbenzene	1.00	1.000E-03	ND	ND	1.000E-03
n-Decane	0.10	1.000E-04	ND	ND	1.000E-04
alpha-Pinene	ND	ND	ND	ND	ND
beta-Pinene	ND	ND	ND	ND	ND
delta 3-Carene	ND	ND	ND	ND	ND
d-Limonene	ND	ND	ND	ND	ND
MTBE	0.40	4.000E-04	ND	ND	4.000E-04
ETBE	ND	ND	ND	ND	ND

TABLE E-2. AEC - RUN NO. 1 GS TEST (31 MARCH 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ppbv	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ppbv	Run 1 Sample 2 - Amount Detected, mg/m³	Average Concentration - Run 1, ppbv
Dichlorodifluoromethane	0.280		ND		2.800E-01
Methylchloride	ND	_	ND ND	_	ND
Dichlorotetrafluoroethane	ND	_	ND ND	-	ND
Chloroethene	ND		ND	-	ND
1,3-Butadiene	0.724	_	ND	_	7.244E-01
Methylbromide	ND ND	_	ND ND	-	ND
Ethylchloride	ND		ND	-	ND
Trichloromonofluoromethane	0.438	_	ND	-	4.377E-01
Vinylidenechloride	ND	_	ND ND	-	ND
Methylenechloride	11.744	_	ND ND		1.174E+01
Allylchloride	ND	_	ND ND	-	ND
1,1,2-Trichloro-1,2,2-	110				
trifluoroethane	0.107	_	ND	_	1.066E-01
1,1-Dichloroethane	ND	-	ND	-	ND
1,2-Dichloroethene	ND	-	ND	_	ND
Chloroform	ND	<u>-</u>	ND	-	ND
1,2-Dichloroethane	ND	-	ND	-	ND
Methylchloroform	0.068	-	ND	-	6.795E-02
Benzene	2.664	-	ND	-	2.664E+00
Carbontetrachloride	0.123	-	ND	-	1.234E-01
1,2-Dichloropropane	ND	-	ND	-	ND
Trichloroethylene	ND	-	ND	-	ND
cis 1,3-Dichloro-1-propene	ND	-	ND	•	ND
trans 1,3-Dichloro-1-propene	ND	-	ND	-	ND
1,1,2-Trichloroethane	ND	-	ND	-	ND
Toluene	1.143	-	ND	•	1.143E+00
1,2-Dibromoethane	ND	-	ND	-	ND
Perchloroethylene	ND	-	ND	-	ND
Chlorobenzene	ND	-	ND	-	ND
Ethylbenzene	0.115	-	ND	-	1.153E-01
m&p-Xylene	0.408	-	ND	-	4.079E-01
Styrene	0.069	-	ND	-	6.876E-02
1,1,2,2-Tetrachloroethane	ND	<u>-</u>	ND	-	ND
o-Xylene	0.185	-	ND	-	1.845E-01
p-Ethyltoluene	0.078	-	ND	-	7.840E-02
1,3,5-Trimethylbenzene	0.051	-	ND	-	5.112E-02
1,2,4-Trimethylbenzene	0.172	-	ND	-	1.716E-01
Benzylchloride	ND	-	ND	-	ND
m-Dichlorobenzene	ND	-	ND	-	ND
p-Dichlorobenzene	ND	-	ND	-	ND

TABLE E-2. AEC - RUN NO. 1 GS TEST (31 MARCH 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ppbv	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ppbv	Run 1 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 1, ppbv
o-Dichlorobenzene	ND	-	ND	-	ND
1,2,4-Trichlorobenzene	ND	-	ND	-	ND
Hexachlorobutadiene	ND	-	ND	<u>-</u>	ND
Phenylacetylene	ND	-	ND	-	ND
Indane	ND	-	ND	-	ND
2,3-Dihydro-1-methyl-1H-indene	ND	-	ND	-	ND
2,3-Dihydro-4-methyl-1H-indene	ND	-	ND	_	ND
Naphthalene	0.262	-	ND	-	2.617E-01
2-Methylnaphthalene	ND	-	ND	-	ND
1-Methylnaphthalene	ND	-	ND	-	ND
Cyanogen	ND	-	ND	-	ND
Methylnitrite	0.159	-	ND		1.590E-01
Acetonitrile	0.557		ND	-	5.570E-01
Acrylonitrile	0.862	-	ND	-	8.619E-01
Nitromethane	0.374	-	ND	-	3.740E-01
Propanenitrile	ND	-	ND	-	ND
2-Methylpropanenitrile	ND	-	ND	-	ND ND
Pentanenitrile	ND ND	-	ND ND	-	ND ND
Hexanenitrile Benzonitrile	ND 0.120	-	ND ND	-	1.198E-01
	0.120 ND	<u> </u>	ND ND	_	ND
2-Nitrophenol Acrolein	0.250	-	ND ND		2.503E-01
Acetone	5.285		ND ND	-	5.285E+00
1-Hydroxy-2-propanone	ND		ND ND		ND
Furan	0.207	_	ND	-	2.073E-01
2-Propanol	ND	_	ND	-	ND
2-Methylpropanal	ND	_	ND	-	ND
1-Propanol	ND	_	ND	-	ND
Methacrolein	ND	-	ND	-	ND
Methyl-vinyl Ketone	ND	-	ND	-	ND
MTBE	0.136	-	ND	-	1.364E-01
2,3-Butanedione	ND	-	ND	-	ND
Butanal	0.123	-	ND	-	1.235E-01
2-Butanone	0.769	-	ND	-	7.695E-01
2-Methyl-1,3-dioxolane	ND	-	ND	-	ND
2-Methylfuran	ND	-	ND	-	ND
Tetrahydrofuran	ND	-	ND	-	ND
trans-2-Butenal	0.064	-	ND	-	6.354E-02
Acetic Acid	0.761	-	ND	-	7.611E-01
1-Butanol	ND	-	ND	-	ND

TABLE E-2. AEC - RUN NO. 1 GS TEST (31 MARCH 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ppbv	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ppby	Run 1 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 1, ppbv
2-Pentanone	0.125	-	ND	-	1.253E-01
Pentanal	0.322	-	ND	-	3.224E-01
1,4-Dioxane	ND	-	ND	-	ND
Methyl Methacrylate	ND	-	ND	-	ND
Cyclopentanone	ND	-	ND	-	ND
Hexanal	0.135	-	ND	-	1.353E-01
2-Furaidehyde	0.178	-	ND	-	1.775E-01
Cyclohexanone	ND	-	ND	-	ND
Heptanal	0.145	-	ND	-	1.454E-01
2-Butoxyethanol	ND	-	ND	-	ND
Benzaldehyde	0.441	-	ND	-	4.415E-01
6-Methyl-5-hepten-2-one	ND	-	ND	-	ND
Octanal	0.190	-	ND	-	1.899E-01
Benzofuran	0.077	-	ND	-	7.735E-02
2-Ethyl-1-hexanol	ND	-	ND	*	ND
Acetophonone	0.085	-	ND	-	8.534E-02
Nonanal	0.193	-	ND	-	1.929E-01
Decanal	0.135	-	ND	-	1.347E-01
Carbonyl Sulfide	0.145	-	ND	-	1.450E-01
Carbon Disulfide	2.953	-	ND	-	2.953E+00
Thiophene	0.110	-	ND	-	1.097E-01
Dimethyldisulfide	ND	-	ND	-	ND

TABLE E-3. AEC - BACKGROUND RUN NO. 1 GS TEST (31 MARCH 1998)

Analyte TNMHC	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv 36.00	Run 1 Background Sample - Amount Detected, mg/m³ 3.600E-02	Average Background Concentration - Run 1, mg/m ³ 3.600E-02
	-		2.800E-02	2.800E-02
Ethane	30	2.80		
Ethylene	28	0.20	2.000E-04	2.000E-04
Acetylene	26	0.80	8.000E-04	8.000E-04
Propane	44	1.30	1.300E-03	1.300E-03
Propene	42	ND	ND	ND
i-Butane	58	0.30	3.000E-04	3.000E-04
i-Butene	56	ND ND	ND	ND ND
1-Butene	56	ND	ND	ND
1,3-Butadiene	54	ND	ND	ND
n-Butane	58	0.50	5.000E-04	5.000E-04
trans-2-Butene	56	ND	ND	ND
2,2-Dimethylpropane	72	ND	ND	ND
cis-2-Butene	56	ND	ND	ND
3-Methyl-1-butene	70	ND	ND	ND
i-Pentane	72	0.80	8.000E-04	8.000E-04
1-Pentene	70	ND	ND	ND
2-Methyl-1-butene	70	ND	ND	ND
n-Pentane	72	0.80	8.000E-04	8.000E-04
Isoprene	68	ND	ND	ND
trans-2-Pentene	70	ND	ND	ND
cis-2-Pentene	70	ND	ND	ND
2-Methyl-2-butene	70	ND	ND	ND
2,2-Dimethylbutane	86	0.10	1.000E-04	1.000E-04
Cyclopentene	68	ND	ND	ND
4-Methyl-1-pentene	84	ND	ND	ND
Cyclopentane	70	0.10	1.000E-04	1.000E-04
2,3-Dimethylbutane	86	0.30	3.000E-04	3.000E-04
cis-4-Methyl-2-pentene	84	ND	ND	ND
2-Methylpentane	86	0.70	7.000E-04	7.000E-04
3-Methylpentane	86	0.50	5.000E-04	5.000E-04
2-Methyl-1-pentene	84	ND	ND	ND
1-Hexene	84	ND	ND	ND
n-Hexane	86	0.70	7.000E-04	7.000E-04
trans-2-Hexene	84	ND	ND	ND
2-Methyl-2-pentene	84	ND	ND	ND
cis-2-Hexene	84	ND	ND	ND
Methylcyclopentane	84	0.30	3.000E-04	3.000E-04
2,4-Dimethylpentane	100	0.70	7.000E-04	7.000E-04

TABLE E-3. AEC - BACKGROUND RUN NO. 1 GS TEST (31 MARCH 1998)

Continues Contin	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m³	Average Background Concentration - Run 1, mg/m ³
Benzene	78	1.00	1.000E-03	1.000E-03
Cyclohexane	84	0.20	2.000E-04	2.000E-04
2-Methylhexane	100	0.30	3.000E-04	3.000E-04
2,3-Dimethylpentane	100	1.50	1.500E-03	1.500E-03
3-Methylhexane	100	0.40	4.000E-04	4.000E-04
2,2,4-Trimethylpentane	114	2.90	2.900E-03	2.900E-03
n-Heptane	100	0.20	2.000E-04	2.000E-04
2,4,4-Trimethyl-1-pentene	112	ND	ND	ND
Methylcyclohexane	98	0.20	2.000E-04	2.000E-04
2,4,4-Trimethyl-2-pentene	112	ND	ND	ND ND
2,5-Dimethylhexane	114	0.20	2.000E-04	2.000E-04
2,4-Dimethylhexane	114	0.40	4.000E-04	4.000E-04
2,3,4-Trimethylpentane	114	0.70	7.000E-04	7.000E-04
Toluene	92	2.20	2.200E-03 3.000E-04	2.200E-03
2,3-Dimethylhexane	114 111	0.30 0.10	1.000E-04	3.000E-04 1.000E-04
2-Methylheptane 3-Ethylhexane	114	ND	ND	ND
2,2-Dimethylheptane	128	ND ND	ND ND	ND ND
2,2,4-Trimethylhexane	128	0.10	1.000E-04	1.000E-04
n-Octane	114	0.10	1.000E-04	1.000E-04
Ethylcyclohexane	112	ND	ND	ND
Ethylbenzene	160	0.20	2.000E-04	2.000E-04
m-Xylene & p-Xylene	106	1.20	1.200E-03	1.200E-03
Styrene	104	ND	ND	ND
o-Xylene	106	0.40	4.000E-04	4.000E-04
n-Nonane	128	ND	ND	ND
i-Propylbenzene	120	ND	ND	ND
n-Propylbenzene	120	0.10	1.000E-04	1.000E-04
p-Ethyltoluene	120	0.30	3.000E-04	3.000E-04
m-Ethyltoluene	120	0.10	1.000E-04	1.000E-04
1,3,5-Trimethylbenzene	120	0.20	2.000E-04	2.000E-04
o-Ethyltoluene	120	0.10	1.000E-04	1.000E-04
1,2,4-Trimethylbenzene & sec-				
Butylbenzene	120	0.60	6.000E-04	6.000E-04
n-Decane	142	0.10	1.000E-04	1.000E-04
alpha-Pinene	136	ND	ND	ND
beta-Pinene	136	ND	ND	' ND
delta 3-Carene	136	ND	ND	ND
d-Limonene	136	ND	ND	ND

TABLE E-3. AEC - BACKGROUND RUN NO. 1 GS TEST (31 MARCH 1998)

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m³	Average Background Concentration - Run 1, mg/m ³
			4.000E-04	4.000E-04
MTBE ETBE	88 102.0	0.40 ND	4.000E-04 ND	4.000E-04 ND
Dichlorodifluoromethane	120.0	0.24	1.179E-03	1.179E-03
Methylchloride	50.0	ND ND	ND	ND ND
Dichlorotetrafluoroethane	171.0	ND ND	ND	ND ND
Chloroethene	63.0	ND	ND	ND ND
1,3-Butadiene	54.0	ND	ND	ND
Methylbromide	95.0	ND ND	ND ND	ND ND
Ethylchloride	64.5	ND	ND	ND 0.4045.00
Trichloromonofluoromethane	137.0	0.43	2.434E-03	2.434E-03
Vinylidenechloride	97.0	ND	ND	ND
Methylenechloride	85.0	0.06	2.283E-04	2.283E-04
Allylchloride	76.5	ND	ND	ND
1,1,2-Trichloro-1,2,2-				.
trifluoroethane	188.0	0.11	8.665E-04	8.665E-04
1,1-Dichloroethane	99.0	ND	ND	ND
1,2-Dichloroethene	97.0	ND	ND	ND
Chloroform	119.0	ND	ND	ND
1,2-Dichloroethane	99.0	ND	ND	ND
Methylchloroform	133.0	0.06	3.490E-04	3.490E-04
Benzene	78.0	0.31	1.017E-03	1.017E-03
Carbontetrachloride	154.0	0.11	6.758E-04	6.758E-04
1,2-Dichloropropane	113.0	ND	ND	ND
Trichloroethylene	133.0	ND	ND	ND
cis 1,3-Dichloro-1-propene	111.0	ND	ND	ND
trans 1,3-Dichloro-1-propene	111.0	ND	ND	ND
1,1,2-Trichloroethane	133.0	ND	ND	ND
Toluene	92.0	0.58	2.238E-03	2.238E-03
1,2-Dibromoethane	188.0	ND	ND	ND
Perchloroethylene	166.0	ND	ND	ND
Chlorobenzene	113.0	ND	ND	ND
Ethylbenzene	160.0	ND	ND	ND
m&p-Xylene	106.0	0.25	1.121E-03	1.121E-03
Styrene	104.0	ND	ND	ND
1,1,2,2-Tetrachloroethane	168.0	ND	ND	ND
o-Xylene	106.0	0.09	4.068E-04	4.068E-04
p-Ethyltoluene	120.0	ND	ND	ND
1,3,5-Trimethylbenzene	120.0	ND	ND	ND
1,2,4-Trimethylbenzene	120.0	0.11	5.425E-04	5.425E-04

TABLE E-3. AEC - BACKGROUND RUN NO. 1 GS TEST (31 MARCH 1998)

÷ Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m³	Average Background Concentration - Run 1, mg/m ³
Benzylchloride	127.0	ND	ND	ND
m-Dichlorobenzene	147.0	ND	ND	ND
p-Dichlorobenzene	147.0	ND	ND	ND
o-Dichlorobenzene	147.0	ND	ND	ND
1,2,4-Trichlorobenzene	181.0	ND	ND	ND
Hexachlorobutadiene	261.0	ND	ND	ND
Phenylacetylene	102.0	ND	ND	ND
Indane	118.0	ND	ND	ND
2,3-Dihydro-1-methyl-1H-indene	132.0	ND	ND	ND
2,3-Dihydro-4-methyl-1H-indene	132.0	ND	ND	ND
Naphthalene	128.0	0.08	4.069E-04	4.069E-04
2-Methylnaphthalene	142.0	ND	ND	ND
1-Methylnaphthalene	142.0	ND	ND	ND
Cyanogen	52	ND	ND	ND
Methylnitrite	61.0	ND	ND	ND
Acetonitrile	41.0	ND	ND	ND
Acrylonitrile	53.0	ND	ND	ND
Nitromethane	61.0	ND	ND	ND
Propanenitrile	55.0	ND	ND	ND
2-Methylpropanenitrile	69.0	ND	ND	ND
Pentanenitrile	83.0	ND	ND	ND
Hexanenitrile	97.0	ND	ND	ND
Benzonitrile	103.0	ND	ND	ND
2-Nitrophenol	139.0	ND	ND	ND
Acrolein	56.0	ND	ND	ND
Acetone	56.0	3.82	8.894E-03	8.894E-03
1-Hydroxy-2-propanone	74.0	ND	ND	ND
Furan	68.0	ND	ND	ND
2-Propanol	60.0	ND	ND	ND ND
2-Methylpropanal	74.0	ND	ND	ND
1-Propanol	60.0	ND	ND	ND
Methacrolein	70.0	ND	ND	ND
Methyl-vinyl Ketone	70.0	ND 0.10	ND	ND
MTBE	88.0	0.12	4.457E-04	4.457E-04
2,3-Butanedione	86.0	ND	ND OFFE OA	ND
Butanal	72.0	0.10	3.055E-04	3.055E-04
2-Butanone	72.0	0.31	9.320E-04	9.320E-04
2-Methyl-1,3-dioxolane	88.0	ND	ND ND	ND ND
2-Methylfuran	82.0	ND	ND	ND

TABLE E-3. AEC - BACKGROUND RUN NO. 1 GS TEST (31 MARCH 1998)

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m³	Average Background Concentration - Run 1, mg/m ³
Tetrahydrofuran	72.0	ND	ND	ND
trans-2-Butenal	70.0	ND	ND	ND
Acetic Acid	60.0	0.69	1.714E-03	1.714E-03
1-Butanol	74.0	ND	ND	ND
2-Pentanone	86.0	ND	ND	ND
Pentanal	86.0	0.39	1.392E-03	1.392E-03
1,4-Dioxane	88.0	ND	ND	ND
Methyl Methacrylate	100.0	ND	ND	ND
Cyclopentanone	84.0	ND	ND	ND
Hexanal	100.0	ND	ND	ND
2-Furaldehyde	96.0	ND	ND	ND
Cyclohexanone	98.0	ND	ND	ND
Heptanal	114.0	0.17	7.930E-04	7.930E-04
2-Butoxyethanol	118.0	ND	ND	ND
Benzaldehyde	106.0	0.24	1.041E-03	1.041E-03
6-Methyl-5-hepten-2-one	126.0	0.40	2.114E-03	2.114E-03
Octanal	128.0	0.19	1.006E-03	1.006E-03
Benzofuran	118.0	ND	ND	ND
2-Ethyl-1-hexanol	120.0	ND	ND	ND
Acetophonone	120.0	ND	ND	ND
Nonanal	142.0	0.17	1.026E-03	1.026E-03
Decanal	156.0	0.14	8.777E-04	8.777E-04
Carbonyl Sulfide	60.0	0.13	3.282E-04	3.282E-04
Carbon Disulfide	76.0	0.53	1.684E-03	1.684E-03
Thiophene	84.0	ND	ND	ND
Dimethyldisulfide	94.0	ND	ND	ND

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppbv	Detection Limit -Amount Detected, mg/m ³	Average Maximum Detection Limit - Concentration, mg/m ³	Average Minimum Detection Limit - Concentration, mg/m ³
TNMHC	-	0.1	1.000E-04	1.000E-04	1.000E-04
Ethane	30	0.1	1.000E-04	1.000E-04	1.000E-04
Ethylene	28	0.1	1.000E-04	1.000E-04	1.000E-04
Acetylene	26	0.1	1.000E-04	1.000E-04	1.000E-04
Propane	44	0.1	1.000E-04	1.000E-04	1.000E-04
Propene	42	0.1	1.000E-04	1.000E-04	1.000E-04
i-Butane	58	0.1	1.000E-04	1.000E-04	1.000E-04
i-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
1-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
1.3-Butadiene	54	0.1	1.000E-04	1.000E-04	1.000E-04
n-Butane	58	0.1	1.000E-04	1.000E-04	1.000E-04
trans-2-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
2,2-Dimethylpropane	72	0.1	1.000E-04	1.000E-04	1.000E-04
cis-2-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
3-Methyl-1-butene	70	0.1	1.000E-04	1.000E-04	1.000E-04
i-Pentane	72	0.1	1.000E-04	1.000E-04	1.000E-04
1-Pentene	70	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-1-butene	70	0.1	1.000E-04	1.000E-04	1.000E-04
n-Pentane	72	0.1	1.000E-04	1.000E-04	1.000E-04
Isoprene	68	0.1	1.000E-04	1.000E-04	1.000E-04
trans-2-Pentene	70	0.1	1.000E-04	1.000E-04	1.000E-04
cis-2-Pentene	70	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-2-butene	70	0.1	1.000E-04	1.000E-04	1.000E-04
2,2-Dimethylbutane	86	0.1	1.000E-04	1.000E-04	1.000E-04
Cyclopentene	68	0.1	1.000E-04	1.000E-04	1.000E-04
4-Methyl-1-pentene	84	0.1	1.000E-04	1.000E-04	1.000E-04
Cyclopentane	70	0.1	1.000E-04	1.000E-04	1.000E-04
2,3-Dimethylbutane	86	0.1	1.000E-04	1.000E-04	1.000E-04
cis-4-Methyl-2-pentene	84	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methylpentane	86	0.1	1.000E-04	1.000E-04	1.000E-04
3-Methylpentane	86	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-1-pentene	84	0.1	1.000E-04	1.000E-04	· · · · · · · · · · · · · · · · · · ·
1-Hexene	84	0.1	1.000E-04	1.000E-04 1.000E-04	1.000E-04 1.000E-04
n-Hexane	86	0.1	1.000E-04	1.000E-04	1.000E-04
trans-2-Hexene	84	0.1	1.000E-04	1.000E-04 1.000E-04	1.000E-04 1.000E-04
2-Methyl-2-pentene	84	0.1	1.000E-04	1.000E-04 1.000E-04	1.000E-04 1.000E-04
cis-2-Hexene	84	0.1	1.000E-04	1.000E-04 1.000E-04	1.000E-04 1.000E-04
Methylcyclopentane	84	0.1	1.000E-04	1.000E-04	1.000E-04 1.000E-04
2,4-Dimethylpentane	100	0.1	1.000E-04 1.000E-04	1.000E-04 1.000E-04	1.000E-04 1.000E-04
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Benzene		0.1	1.000E-04	1.000E-04	1.000E-04
Cyclohexane	84	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methylhexane	100	0.1	1.000E-04	1.000E-04	1.000E-04

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppbv 0.1	Detection Limit -Amount Detected, mg/m ³	Average Maximum Detection Limit - Concentration, mg/m³ 1.000E-04	Average Minimum Detection Limit - Concentration, mg/m³ 1.000E-04
2,3-Dimethylpentane		0.1	1.000E-04	1.000E-04 1.000E-04	1.000E-04
3-Methylhexane	100		1.000E-04	1.000E-04	1.000E-04
2,2,4-Trimethylpentane	114	0.1			1.000E-04
n-Heptane	100	0.1	1.000E-04	1.000E-04	
2,4,4-Trimethyl-1-pentene	112	0.1	1.000E-04	1.000E-04	1.000E-04
Methylcyclohexane	98	0.1	1.000E-04	1.000E-04	1.000E-04
2,4,4-Trimethyl-2-pentene	112	0.1	1.000E-04	1.000E-04	1.000E-04
2,5-Dimethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2,4-Dimethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2,3,4-Trimethylpentane	114	0.1	1.000E-04	1.000E-04	1.000E-04
Toluene	92	0.1	1.000E-04	1.000E-04	1.000E-04
2,3-Dimethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methylheptane	111	0.1	1.000E-04	1.000E-04	1.000E-04
3-Ethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2,2-Dimethylheptane	128	0.1	1.000E-04	1.000E-04	1.000E-04
2,2,4-Trimethylhexane	128	0.1	1.000E-04	1.000E-04	1.000E-04
n-Octane	114	0.1	1.000E-04	1.000E-04	1.000E-04
Ethylcyclohexane	112	0.1	1.000E-04	1.000E-04	1.000E-04
Ethylbenzene	160	0.1	1.000E-04	1.000E-04	1.000E-04
m-Xylene & p-Xylene	106	0.1	1.000E-04	1.000E-04	1.000E-04
Styrene	104	0.1	1.000E-04	1.000E-04	1.000E-04
o-Xylene	106	0.1	1.000E-04	1.000E-04	1.000E-04
n-Nonane	128	0.1	1.000E-04	1.000E-04	1.000E-04
i-Propylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
n-Propylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
p-Ethyltoluene	120	0.1	1.000E-04	1.000E-04	1.000E-04
m-Ethyltoluene	120	0.1	1.000E-04	1.000E-04	1.000E-04
1,3,5-Trimethylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
o-Ethyltoluene	120	0.1	1.000E-04	1.000E-04	1.000E-04
1,2,4-Trimethylbenzene & sec-					
Butylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
n-Decane	142	0.1	1.000E-04	1.000E-04	1.000E-04
alpha-Pinene	136	0.1	1.000E-04	1.000E-04	1.000E-04
beta-Pinene	136	0.1	1.000E-04	1.000E-04	1.000E-04
delta 3-Carene	136	0.1	1.000E-04	1.000E-04	1.000E-04
d-Limonene	136	0.1	1.000E-04	1.000E-04	1.000E-04
MTBE	88	0.1	1.000E-04	1.000E-04	1.000E-04
ETBE	102.0	0.1	1.000E-04	1.000E-04	1.000E-04
Dichlorodifluoromethane	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Methylchloride	50.0	0.1	2.080E-04	2.080E-04	2.080E-04
Dichlorotetrafluoroethane	171.0	0.1	7.114E-04	7.114E-04	7.114E-04

Control of the resulting of the second of th	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppbv	Detection Limit -Amount Detected, mg/m ³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m ³
Chloroethene	63.0	0.1	2.621E-04	2.621E-04	2.621E-04
1,3-Butadiene	54.0	0.1	2.246E-04	2.246E-04	2.246E-04
Methylbromide	95.0	0.1	3.952E-04	3.952E-04	3.952E-04
Ethylchloride	64.5	0.1	2.683E-04	2.683E-04	2.683E-04
Trichloromonofluoromethane	137.0	0.1	5.699E-04	5.699E-04	5.699E-04
Vinylidenechloride	97.0	0.1	4.035E-04	4.035E-04	4.035E-04
Methylenechloride	85.0	0.1	3.536E-04	3.536E-04	3.536E-04
Allylchloride	76.5	0.1	3.182E-04	3.182E-04	3.182E-04
1,1,2-Trichloro-1,2,2-					
trifluoroethane	188.0	0.1	7.821E-04	7.821E-04	7.821E-04
1,1-Dichloroethane	99.0	0.1	4.118E-04	4.118E-04	4.118E-04
1,2-Dichloroethene	97.0	0.1	4.035E-04	4,035E-04	4.035E-04
Chloroform	119.0	0.1	4.950E-04	4.950E-04	4.950E-04
1,2-Dichloroethane	99.0	0.1	4.118E-04	4.118E-04	4.118E-04
Methylchloroform	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
Benzene	78.0	0.1	3.245E-04	3.245E-04	3.245E-04
Carbontetrachloride	154.0	0.1	6.406E-04	6.406E-04	6.406E-04
1,2-Dichloropropane	113.0	0.1	4.701E-04	4.701E-04	4.701E-04
Trichloroethylene	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
cis 1,3-Dichloro-1-propene	111.0	0.1	4.618E-04	4.618E-04	4.618E-04
trans 1,3-Dichloro-1-propene	111.0	0.1	4.618E-04	4.618E-04	4.618E-04
1,1,2-Trichloroethane	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
Toluene	92.0	0.1	3.827E-04	3.827E-04	3.827E-04
1,2-Dibromoethane	188.0	0.1	7.821E-04	7.821E-04	7.821E-04
Perchloroethylene	166.0	0.1	6.906E-04	6.906E-04	6.906E-04
Chlorobenzene	113.0	0.1	4.701E-04	4.701E-04	4.701E-04
Ethylbenzene	160.0	0.1	6.656E-04	6.656E-04	6.656E-04
m&p-Xylene	106.0	0.1	4.410E-04	4.410E-04	4.410E-04
Styrene	104.0	0.1	4.326E-04	4.326E-04	4.326E-04
1,1,2,2-Tetrachloroethane	168.0	0.1	6.989E-04	6.989E-04	6.989E-04
o-Xylene	106.0	0.1	4.410E-04	4.410E-04	4.410E-04
p-Ethyltoluene	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
1,3,5-Trimethylbenzene	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
1,2,4-Trimethylbenzene	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Benzylchloride	127.0	0.1	5.283E-04	5.283E-04	5.283E-04
m-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04	6.115E-04
p-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04	6.115E-04
o-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04	6.115E-04
1,2,4-Trichlorobenzene	181.0	0.1	7.530E-04	7.530E-04	7.530E-04
Hexachlorobutadiene	261.0	0.1	1.086E-03	1.086E-03	1.086E-03
Phenylacetylene	102.0	0.1	4.243E-04	4.243E-04	4.243E-04
Indane	118.0	0.1	4.909E-04	4.909E-04	4.909E-04

TABLE E-4. AEC - RUN NO. 1 GS TEST (31 MARCH 1998)

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m ³ or ppbv	Detection Limit -Amount Detected, mg/m³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m ³
2,3-Dihydro-1-methyl-1H-indene	132.0	0.1	5.491E-04	5.491E-04	5.491E-04
2,3-Dihydro-4-methyl-1H-indene	132.0	0.1	5.491E-04	5.491E-04	5.491E-04
Naphthalene	128.0	0.1	5.325E-04	5.325E-04	5.325E-04
2-Methylnaphthalene	142.0	0.1	5.907E-04	5.907E-04	5.907E-04
1-Methylnaphthalene	142.0	0.1	5.907E-04	5.907E-04	5.907E-04
Cyanogen	52	0.1	2.163E-04	2.163E-04	2.163E-04
Methylnitrite	61.0	0.1	2.538E-04	2.538E-04	2.538E-04
Acetonitrile	41.0	0.1	1.706E-04	1.706E-04	1.706E-04
Acrylonitrile	53.0	0.1	2.205E-04	2.205E-04	2.205E-04
Nitromethane	61.0	0.1	2.538E-04	2.538E-04	2.538E-04
Propanenitrile	55.0	0.1	2.288E-04	2.288E-04	2.288E-04
2-Methylpropanenitrile	69.0	0.1	2.870E-04	2.870E-04	2.870E-04
Pentanenitrile	83.0	0.1	3.453E-04	3.453E-04	3.453E-04
Hexanenitrile	97.0	0.1	4.035E-04	4.035E-04	4.035E-04
Benzonitrile	103.0	0.1	4.285E-04	4.285E-04	4.285E-04
2-Nitrophenol	139.0	0.1	5.782E-04	5.782E-04	5.782E-04
Acrolein	56.0	0.1	2.330E-04	2.330E-04	2.330E-04
Acetone	56.0	0.1	2.330E-04	2.330E-04	2.330E-04
1-Hydroxy-2-propanone	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
Furan	68.0	0.1	2.829E-04	2.829E-04	2.829E-04
2-Propanol	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
2-Methylpropanal	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
1-Propanol	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
Methacrolein	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
Methyl-vinyl Ketone	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
MTBE	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
2,3-Butanedione	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
Butanal	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
2-Butanone	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
2-Methyl-1,3-dioxolane	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
2-Methylfuran	82.0	0.1	3.411E-04	3.411E-04	3.411E-04
Tetrahydrofuran	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
trans-2-Butenal	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
Acetic Acid	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
1-Butanol	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
2-Pentanone	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
Pentanal	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
1,4-Dioxane	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
Methyl Methacrylate	100.0	0.1	4.160E-04	4.160E-04	4.160E-04
Cyclopentanone	84.0	0.1	3.494E-04	3.494E-04	3.494E-04
Hexanal	100.0	0.1	4.160E-04	4.160E-04	4.160E-04
2-Furaldehyde	96.0	0.1	3.994E-04	3.994E-04	3.994E-04

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppbv	Detection Limit -Amount Detected, mg/m ³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
Cyclohexanone	98.0	0.1	4.077E-04	4.077E-04	4.077E-04
Heptanal	114.0	0.1	4.742E-04	4.742E-04	4.742E-04
2-Butoxyethanol	118.0	0.1	4.909E-04	4.909E-04	4.909E-04
Benzaldehyde	106.0	0.1	4.410E-04	4.410E-04	4.410E-04
6-Methyl-5-hepten-2-one	126.0	0.1	5.242E-04	5.242E-04	5.242E-04
Octanal	128.0	0.1	5.325E-04	5.325E-04	5.325E-04
Benzofuran	118.0	0.1	4.909E-04	4.909E-04	4.909E-04
2-Ethyl-1-hexanol	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Acetophonone	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Nonanal	142.0	0.1	5.907E-04	5.907E-04	5.907E-04
Decanat	156.0	0.1	6.490E-04	6.490E-04	6.490E-04
Carbonyl Sulfide	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
Carbon Disulfide	76.0	0.1	3.162E-04	3.162E-04	3.162E-04
Thiophene	84.0	0.1	3.494E-04	3.494E-04	3.494E-04
Dimethyldisulfide	94.0	0.1	3.910E-04	3.910E-04	3.910E-04

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GREEN PARACHUTE SIGNAL FLARE

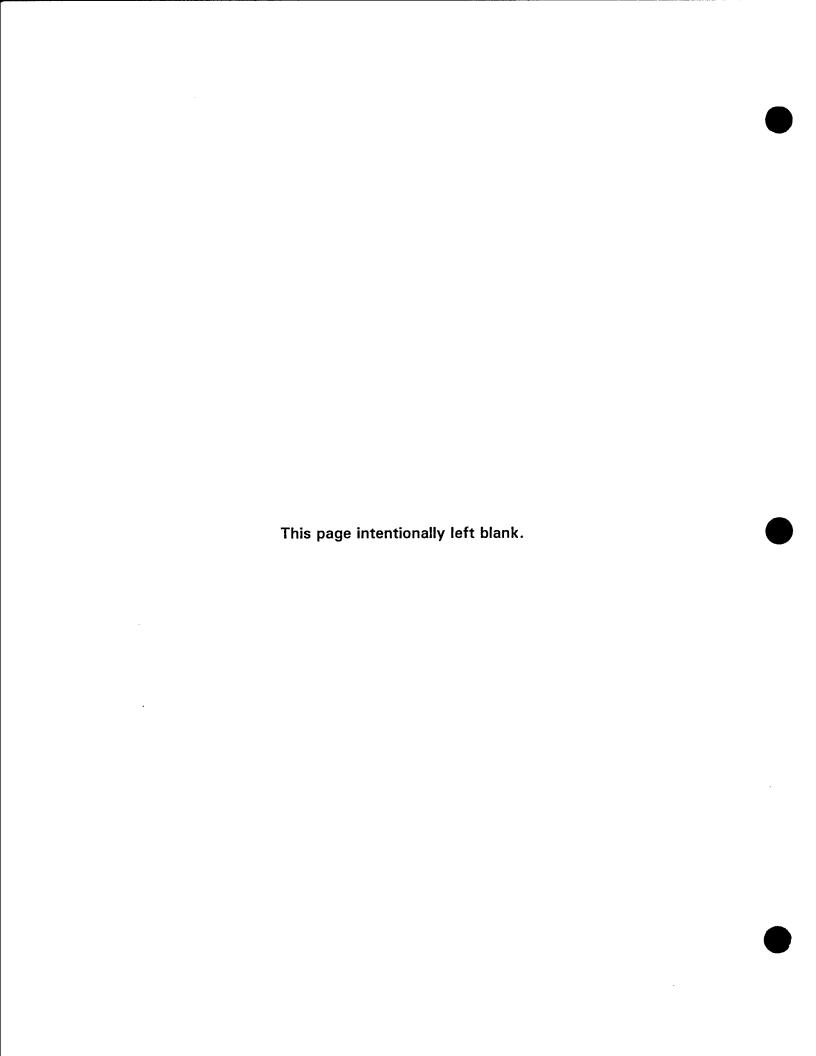


TABLE E-1. AEC - RUN NO. 1 GP TEST (31 MARCH 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ug/m³	Run 1 Sample 1 - Amount Detected, mg/m³	Run 1 Sample 2 - Amount Detected, ug/m³	Run 1 Sample 2 - Amount Detected, mg/m³	Average Concentration - Run 1, mg/m ³
TNMHC	138.60	1.386E-01	137.30	1.373E-01	1.380E-01
Ethane	5.00	5.000E-03	5.00	5.000E-03	5.000E-03
Ethylene	26.40	2.640E-02	25.70	2.570E-02	2.605E-02
Acetylene	13.70	1.370E-02	14.10	1.410E-02	1.390E-02
Propane	1.70	1.700E-03	2.10	2.100E-03	1.900E-02
Propene	7.50	7.500E-03	7.80	7.800E-03	7.650E-03
i-Butane	0.40	4.000E-04	0.40	4.000E-04	4.000E-04
i-Butene	0.80	8.000E-04	1.10	1.100E-03	9.500E-04
1-Butene	2.50	2.500E-03	2.20	2.200E-03	2.350E-03
1,3-Butadiene	1.80	1.800E-03	1.70	1.700E-03	1.750E-03
n-Butane	1.20	1.200E-03	1.30	1.300E-03	1.250E-03
trans-2-Butene	1.10	1.100E-03	1.10	1.100E-03	1.100E-03
2,2-Dimethylpropane	ND ND	ND	ND	ND	ND
cis-2-Butene	0.30	3.000E-04	0.30	3.000E-04	3.000E-04
3-Methyl-1-butene	0.10	1.000E-04	0.10	1.000E-04	1.000E-04
i-Pentane	1.50	1.500E-03	1.50	1.500E-03	1.500E-03
1-Pentene	ND	ND	0.40	4.000E-04	4.000E-04
2-Methyl-1-butene	0.10	1.000E-04	0.20	2.000E-04	1.500E-04
n-Pentane	1.50	1.500E-03	1.80	1.800E-03	1.650E-03
Isoprene	0.10	1.000E-04	0.10	1.000E-04	1.000E-04
trans-2-Pentene	0.20	2.000E-04	0.20	2.000E-04	2.000E-04
cis-2-Pentene	, ND	ND	0.20	2.000E-04	2.000E-04
2-Methyl-2-butene	ND	ND	0.10	1.000E-04	1.000E-04
2,2-Dimethylbutane	0.10	1.000E-04	0.30	3.000E-04	2.000E-04
Cyclopentene	ND	ND	ND	ND	ND
4-Methyl-1-pentene	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND
2,3-Dimethylbutane	0.60	6.000E-04	0.70	7.000E-04	6.500E-04
cis-4-Methyl-2-pentene	ND	ND	ND	ND	ND
2-Methylpentane	1.40	1.400E-03	1.40	1.400E-03	1.400E-03
3-Methylpentane	0.30	3.000E-04	0.30	3.000E-04	3.000E-04
2-Methyl-1-pentene	ND	ND	ND	ND	ND
1-Hexene	0.40	4.000E-04	0.30	3.000E-04	3.500E-04
n-Hexane	1.50	1.500E-03	1.50	1.500E-03	1.500E-03
trans-2-Hexene	ND	. ND	0.10	1.000E-04	1.000E-04
2-Methyl-2-pentene	ND	ND	0.10	1.000E-04	1.000E-04
cis-2-Hexene	ND	ND	0.10	1.000E-04	1.000E-04
Methylcyclopentane	0.50	5.000E-04	0.60	6.000E-04	5.500E-04
2,4-Dimethylpentane	1.10	1.100E-03	1.10	1.100E-03	1.100E-03
Benzene	8.00	8.000E-03	8.10	8.100E-03	8.050E-03

TABLE E-1. AEC - RUN NO. 1 GP TEST (31 MARCH 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ug/m ³	Run 1 Sample 1 - Amount Detected, mg/m³	Run 1 Sample 2 - Amount Detected, ug/m³	Run 1 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 1, mg/m ³
Cyclohexane	0.50	5.000E-04	0.50	5.000E-04	5.000E-04
2-Methylhexane	0.80	8.000E-04	0.70	7.000E-04	7.500E-04
2,3-Dimethylpentane	2.20	2.200E-03	2.10	2.100E-03	2.150E-03
3-Methylhexane	0.80	8.000E-04	0.70	7.000E-04	7.500E-04
2,2,4-Trimethylpentane	4.10	4.100E-03	4.10	4.100E-03	4.100E-03
n-Heptane	0.70	7.000E-04	0.70	7.000E-04	7.000E-04
2,4,4-Trimethyl-1-pentene	ND	ND	ND	ND	ND
Methylcyclohexane	0.50	5.000E-04	0.40	4.000E-04	4.500E-04
2,4,4-Trimethyl-2-pentene	ND	ND	ND	ND	ND
2,5-Dimethylhexane	0.30	3.000E-04	0.40	4.000E-04	3.500E-04
2,4-Dimethylhexane	0.50	5.000E-04	0.50	5.000E-04	5.000E-04
2,3,4-Trimethylpentane	1.00	1.000E-03	1.00	1.000E-03	1.000E-03
Toluene	5.70	5.700E-03	5.70	5.700E-03	5.700E-03
2,3-Dimethylhexane	0.30	3.000E-04	0.40	4.000E-04	3.500E-04
2-Methylheptane	0.50	5.000E-04	0.40	4.000E-04	4.500E-04
3-Ethylhexane	ND	ND	ND ND	ND	ND NB
2,2-Dimethylheptane	ND 0.10	ND 1.000E-04	ND 0.10	ND	ND
2,2,4-Trimethylhexane n-Octane	0.10 0.40	4.000E-04	0.10 0.20	1.000E-04 2.000E-04	1.000E-04 3.000E-04
Ethylcyclohexane	ND	ND	ND	ND	ND
Ethylbenzene	0.70	7.000E-04	0.60	6.000E-04	6.500E-04
m-Xylene & p-Xylene	3.10	3.100E-03	2.60	2.600E-03	2.850E-03
Styrene	0.50	5.000E-04	0.40	4.000E-04	4.500E-04
o-Xylene	1.10	1.100E-03	1.00	1.000E-03	1.050E-03
n-Nonane	0.20	2.000E-04	0.10	1.000E-04	1.500E-04
i-Propylbenzene	ND	ND	ND	ND	ND
n-Propylbenzene	0.30	3.000E-04	0.20	2.000E-04	2.500E-04
p-Ethyltoluene	1.00	1.000E-03	1.00	1.000E-03	1.000E-03
m-Ethyltoluene	0.40	4.000E-04	0.30	3.000E-04	3.500E-04
1,3,5-Trimethylbenzene	0.50	5.000E-04	0.40	4.000E-04	4.500E-04
o-Ethyltoluene	0.40	4.000E-04	0.30	3.000E-04	3.500E-04
1,2,4-Trimethylbenzene & sec-					
Butylbenzene	1.30	1.300E-03	1.00	1.000E-03	1.150E-03
n-Decane	0.30	3.000E-04	0.10	1.000E-04	2.000E-04
alpha-Pinene	ND	ND	ND	ND	ND
beta-Pinene	ND	ND	ND	ND	ND
delta 3-Carene	ND	ND	ND	ND	ND
d-Limonene	ND	ND	ND	ND	ND
MTBE	0.70	7.000E-04	1.10	1.100E-03	9.000E-04
ETBE	ND	ND	ND	ND	ND

publication of the second seco	Run 1 Sample 1 - Amount Detected, ppbv	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ppbv	Run 1 Sample 2 - Amount Detected, mg/m³	Average Concentration - Run 1, ppbv
Dichlorodifluoromethane	0.266	_	0.328		2.968E-01
Methylchloride	ND		ND	-	ND
Dichlorotetrafluoroethane	ND	•	ND	-	ND ND
Chloroethene	ND	-	ND	-	ND ND
1,3-Butadiene	0.815		0.770		7.924E-01
Methylbromide	ND	-	ND	·	7.924E-01 ND
Ethylchloride	ND ND	<u> </u>	ND	-	ND ND
Trichloromonofluoromethane	0.451	-		-	
Vinylidenechloride	0.451 ND	-	0.453 ND	-	4.520E-01 ND
Methylenechloride	16.336	-	15.036	-	1.569E+01
Allylchloride	ND	<u>-</u>	ND	-	1.569E+01 ND
1,1,2-Trichloro-1,2,2-	IND	-	IND	<u> </u>	ND
trifluoroethane	0.115	_	0.111	_	1.127E-01
1,1-Dichloroethane	ND	-	ND	-	ND
1,2-Dichloroethene	ND	-	ND	-	ND
Chloroform	ND	-	ND	-	ND
1,2-Dichloroethane	ND	-	ND	-	ND
Methylchloroform	0.071	-	0.070	-	7.043E-02
Benzene	2.508	-	2.539	-	2.523E+00
Carbontetrachloride	0.131	-	0.130	-	1.305E-01
1,2-Dichloropropane	ND	-	ND		ND
Trichloroethylene	ND	-	ND	-	ND
cis 1,3-Dichloro-1-propene	ND	-	ND	-	ND
trans 1,3-Dichloro-1-propene	ND	-	ND	•	ND
1,1,2-Trichloroethane	ND	-	ND	-	ND
Toluene	1.515	-	1.515	-	1.515E+00
1,2-Dibromoethane	ND	-	ND	-	ND
Perchloroethylene	ND	-	ND	-	ND
Chlorobenzene	ND	-	ND	-	ND
Ethylbenzene	0.161	-	0.138	_	1.499E-01
m&p-Xylene	0.680	-	0.616	-	6.483E-01
Styrene	ND	-	ND	-	ND
1,1,2,2-Tetrachloroethane	ND		ND	-	ND
o-Xylene	0.254		0.231	-	2.422E-01
p-Ethyltoluene	0.111	-	0.106	•	1.084E-01
1,3,5-Trimethylbenzene	0.069	-	0.069	-	6.906E-02
1,2,4-Trimethylbenzene	0.225		0.214	-	2.197E-01
Benzylchloride	ND	-	ND	-	ND
m-Dichlorobenzene	ND	-	ND	-	ND
p-Dichlorobenzene	ND	-	ND	-	ND
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TABLE E-2. AEC - RUN NO. 1 GP TEST (31 MARCH 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ppbv	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ppbv	Run 1 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 1, ppbv
o-Dichlorobenzene	ND		ND	-	ND
1,2,4-Trichlorobenzene	ND	-	ND	_	ND
Hexachlorobutadiene	ND	-	ND	-	ND
Phenylacetylene	ND	-	ND	i -	ND
Indane	ND	-	ND	-	ND
2,3-Dihydro-1-methyl-1H-indene	ND	-	ND	_	ND
2,3-Dihydro-4-methyl-1H-indene	ND ND	_	ND	-	ND
Naphthalene	0.229	-	0.250	_	2.397E-01
2-Methylnaphthalene	ND	-	ND	-	ND
1-Methylnaphthalene	ND	-	ND	-	ND
Cyanogen	ND	-	ND	-	ND
Methylnitrite	0.163	-	0.148	-	1.556E-01
Acetonitrile	0.351	-	0.326	-	3.386E-01
Acrylonitrile	0.239	-	0.263	-	2.509E-01
Nitromethane	0.398	_	0.649	-	5.235E-01
Propanenitrile	ND	_	ND	-	ND
2-Methylpropanenitrile	ND	-	ND	-	ND
Pentanenitrile	ND	-	ND	-	ND
Hexanenitrile	ND	-	ND	-	ND
Benzonitrile	0.106	-	0.159	-	1.324E-01
2-Nitrophenol	ND	-	ND	-	ND
Acrolein	0.202	-	0.209	-	2.057E-01
Acetone	4.701	-	4.432	•	4.567E+00
1-Hydroxy-2-propanone	ND	-	ND	-	ND
Furan	0.107	-	0.121	-	1.142E-01
2-Propanol	ND	-	ND	-	ND
2-Methylpropanal	ND	-	ND	-	ND
1-Propanol	ND	-	ND	-	ND
Methacrolein	ND	-	ND	-	ND
Methyl-vinyl Ketone	ND	-	ND	-	ND
MTBÉ	0.281	-	0.269	-	2.752E-01
2,3-Butanedione	ND	•	ND	-	ND
Butanal	0.147	•	0.158	-	1.528E-01
2-Butanone	0.676	-	0.594	-	6.351E-01
2-Methyl-1,3-dioxolane	ND	•	ND	-	ND
2-Methylfuran	ND	-	ND	-	ND
Tetrahydrofuran	ND	-	ND	-	ND
trans-2-Butenal	0.061	-	0.061	-	6.092E-02
Acetic Acid	0.897	-	0.861	-	8.789E-01
1-Butanol	ND	-	ND	-	ND

TABLE E-2. AEC - RUN NO. 1 GP TEST (31 MARCH 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ppby	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ppby	Run 1 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 1, ppbv
2-Pentanone	0.179	-	0.161	-	1.699E-01
Pentanal	0.362	-	0.436	•	3.989E-01
1,4-Dioxane	ND	-	ND	-	ND
Methyl Methacrylate	ND	-	ND	-	ND
Cyclopentanone	0.172	-	0.076	-	1.241E-01
Hexanal	0.160	-	0.218	-	1.893E-01
2-Furaldehyde	0.076	-	0.117	-	9.663E-02
Cyclohexanone	ND	-	ND	-	ND
Heptanal	0.151	-	0.130	-	1.406E-01
2-Butoxyethanol	ND	-	ND	-	ND
Benzaldehyde	0.348	-	0.401	-	3.744E-01
6-Methyl-5-hepten-2-one	ND	-	ND	-	ND
Octanal	0.311	-	0.258	-	2.846E-01
Benzofuran	ND	-	ND	-	ND
2-Ethyl-1-hexanol	ND	-	ND	-	ND
Acetophonone	0.060	-	0.066	-	6.285E-02
Nonanal	0.429	-	0.395	-	4.121E-01
Decanal	0.411	-	0.408	-	4.099E-01
Carbonyl Sulfide	0.109	-	0.131	-	1.197E-01
Carbon Disulfide	3.251	-	2.974	-	3.112E+00
Thiophene	0.097	-	0.101	-	9.894E-02
Dimethyldisulfide	ND	-	ND	-	ND

TABLE E-3. AEC - BACKGROUND RUN NO. 1 GP TEST (31 MARCH 1998)

	1				
		Run 1			
		Background	Run 1		
		Sample -	Background		
		Amount	Sample -	Average	
		Detected,	Amount	Background	
	Molecular	ug/m³ or	Detected,	Concentration -	
Analyte	Weight	ppbv	mg/m³	Run 1, mg/m³	
TNMHC	-	60.70	6.070E-02	6.070E-02	
Ethane	30	1.90	1.900E-03	1.900E-03	
Ethylene	28	0.80	8.000E-04	8.000E-04	
Acetylene	26	2.80	2.800E-03	2.800E-03	
Propane	44	1.40	1.400E-03	1.400E-03	
Propene	42	0.70	7.000E-04	7.000E-04	
i-Butane	58	0.40	4.000E-04	4.000E-04	
i-Butene	56	0.40	4.000E-04	4.000E-04	
1-Butene	56	0.20	2.000E-04	2.000E-04	
1,3-Butadiene	54	0.20	2.000E-04	2.000E-04	
n-Butane	58	1.10	1.100E-03	1.100E-03	
trans-2-Butene	56	0.30	3.000E-04	3.000E-04	
2,2-Dimethylpropane	72	ND	ND	ND	
cis-2-Butene	56	0.10	1.000E-04	1.000E-04	
3-Methyl-1-butene	70	ND	ND	ND	
i-Pentane	72	1.60	1.600E-03	1.600E-03	
1-Pentene	70	ND	ND	ND	
2-Methyl-1-butene	70	ND	ND	ND	
n-Pentane	72	1.60	1.600E-03	1.600E-03	
Isoprene	68	0.20	2.000E-04	2.000E-04	
trans-2-Pentene	70	ND	ND	ND	
cis-2-Pentene	70	ND	ND	ND	
2-Methyl-2-butene	70	ND	ND	ND	
2,2-Dimethylbutane	86	0.60	6.000E-04	6.000E-04	
Cyclopentene	68	ND	ND	ND	
4-Methyl-1-pentene	84	ND	ND	ND	
Cyclopentane	70	0.10	1.000E-04	1.000E-04	
2,3-Dimethylbutane	86	0.50	5.000E-04	5.000E-04	
cis-4-Methyl-2-pentene	84	ND	ND	ND	
2-Methylpentane	86	1.90	1.900E-03	1.900E-03	
3-Methylpentane	86	1.00	1.000E-03	1.000E-03	
2-Methyl-1-pentene	84	ND	ND	ND	
1-Hexene	84	ND	ND	ND	
n-Hexane	86	1.60	1.600E-03	1.600E-03	
trans-2-Hexene	84	ND	ND	ND	
2-Methyl-2-pentene	84	ND	ND	ND	
cis-2-Hexene	84	ND	ND	ND	
Methylcyclopentane	84	0.60	6.000E-04	6.000E-04	
2,4-Dimethylpentane	100	1.00	1.000E-03	1.000E-03	
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TABLE E-3. AEC - BACKGROUND RUN NO. 1 GP TEST (31 MARCH 1998)

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m³	Average Background Concentration - Run 1, mg/m³
Benzene	78	2.30	2.300E-03	2.300E-03
Cyclohexane	84	0.60	6.000E-04	6.000E-04
2-Methylhexane	100	0.70	7.000E-04	7.000E-04
2,3-Dimethylpentane	100	2.10	2.100E-03	2.100E-03
3-Methylhexane	100	1.00	1.000E-03	1.000E-03
2,2,4-Trimethylpentane	114	4.20	4.200E-03	4.200E-03
n-Heptane	100	0.70	7.000E-04	7.000E-04
2,4,4-Trimethyl-1-pentene	112	ND	ND	ND
Methylcyclohexane	98	0.50	5.000E-04	5.000E-04
2,4,4-Trimethyl-2-pentene	112	ND	ND	ND
2,5-Dimethylhexane	114	0.40	4.000E-04	4.000E-04
2,4-Dimethylhexane	114	0.50	5.000E-04	5.000E-04
2,3,4-Trimethylpentane	114	1.00	1.000E-03	1.000E-03
Toluene	92	5.00	5.000E-03	5.000E-03
2,3-Dimethylhexane	114	0.40	4.000E-04	4.000E-04
2-Methylheptane	111	0.20	2.000E-04	2.000E-04
3-Ethylhexane	114	ND	ND	ND
2,2-Dimethylheptane	128	ND	ND	ND
2,2,4-Trimethylhexane	128	0.20	2.000E-04	2.000E-04
n-Octane	114	0.20	2.000E-04	2.000E-04
Ethylcyclohexane	112	ND	ND	ND
Ethylbenzene	160	0.50	5.000E-04	5.000E-04
m-Xylene & p-Xylene	106	2.50	2.500E-03	2.500E-03
Styrene	104	0.50	5.000E-04	5.000E-04
o-Xylene	106	0.90	9.000E-04	9.000E-04
n-Nonane	128	ND	ND	ND
i-Propylbenzene	120	ND	ND	ND
n-Propylbenzene	120	0.20	2.000E-04	2.000E-04
p-Ethyltoluene	120	0.60	6.000E-04	6.000E-04
m-Ethyltoluene	120	0.20	2.000E-04	2.000E-04
1,3,5-Trimethylbenzene	120	0.30	3.000E-04	3.000E-04
o-Ethyltoluene	120	0.20	2.000E-04	2.000E-04
1,2,4-Trimethylbenzene & sec-	1			
Butylbenzene	120	0.80	8.000E-04	8.000E-04
n-Decane	142	0.10	1.000E-04	1.000E-04
alpha-Pinene	136	ND	ND	ND
beta-Pinene	136	ND	ND	ND
delta 3-Carene	136	ND	ND	ND
d-Limonene	136	ND	ND	ND

TABLE E-3. AEC - BACKGROUND RUN NO. 1 GP TEST (31 MARCH 1998)

Analyte MTBE	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m³	Average Background Concentration - Run 1, mg/m ³
ETBE	88 102.0	0.70	7.000E-04	7.000E-04
Dichlorodifluoromethane		ND 0.00	ND	ND .
	120.0	0.23	1.130E-03	1.130E-03
Methylchloride	50.0	ND	ND	ND
Dichlorotetrafluoroethane	171.0	ND	ND	ND
Chloroethene	63.0	ND	ND	ND
1,3-Butadiene	54.0	0.09	2.034E-04	2.034E-04
Methylbromide	95.0	ND	ND	ND
Ethylchloride	64.5	ND	ND	ND
Trichloromonofluoromethane	137.0	0.44	2.533E-03	2.533E-03
Vinylidenechloride	97.0	ND	ND	ND
Methylenechloride	85.0	0.23	8.068E-04	8.068E-04
Allylchloride	76.5	ND	ND	ND
1,1,2-Trichloro-1,2,2-			_	
trifluoroethane	188.0	0.11	8.258E-04	8.258E-04
1,1-Dichloroethane	99.0	ND	ND	ND
1,2-Dichloroethene	97.0	ND	ND	ND
Chloroform	119.0	ND	ND	ND
1,2-Dichloroethane	99.0	ND	ND	ND
Methylchloroform	133.0	0.06	3.482E-04	3.482E-04
Benzene	78.0	0.72	2.339E-03	2.339E-03
Carbontetrachloride	154.0	0.11	7.072E-04	7.072E-04
1,2-Dichloropropane	113.0	ND	ND	ND
Trichloroethylene	133.0	ND	ND	ND
cis 1,3-Dichloro-1-propene	111.0	ND	ND	ND
trans 1,3-Dichloro-1-propene	111.0	ND	ND	ND
1,1,2-Trichloroethane	133.0	ND	ND	ND
Toluene	92.0	1.33	5.086E-03	5.086E-03
1,2-Dibromoethane	188.0	ND	ND	ND
Perchloroethylene	166.0	ND	ND	ND
Chlorobenzene	113.0	ND	ND	ND
Ethylbenzene	160.0	0.12	7.676E-04	7.676E-04
m&p-Xylene	106.0	0.54	2.390E-03	2.390E-03
Styrene	104.0	ND	ND	ND
1,1,2,2-Tetrachloroethane	168.0	ND	ND	ND
o-Xylene	106.0	0.21	9.154E-04	9.154E-04
p-Ethyltoluene	120.0	0.09	4.433E-04	4.433E-04
1,3,5-Trimethylbenzene	120.0	0.05	2.679E-04	2.679E-04
1,2,4-Trimethylbenzene	120.0	0.17	8.531E-04	8.531E-04

Analyte	Molecular Welght	Run 1 Background Sample - Amount Detected, ug/m³ or ppby	Run 1 Background Sample - Amount Detected, mg/m³	Average Background Concentration - Run 1, mg/m ³
Benzylchloride	127.0	ND	ND	ND
m-Dichlorobenzene	147.0	ND	ND	ND
p-Dichlorobenzene	147.0	ND	ND	ND
o-Dichlorobenzene	147.0	ND	ND	ND
1,2,4-Trichlorobenzene	181.0	ND	ND	ND
Hexachlorobutadiene	261.0	ND	ND	ND
Phenylacetylene	102.0	ND	ND	ND
Indane	118.0	ND	ND	ND
2,3-Dihydro-1-methyl-1H-indene	132.0	ND	ND	ND
2,3-Dihydro-4-methyl-1H-indene	132.0	ND	ND	ND
Naphthalene	128.0	0.08	4.078E-04	4.078E-04
2-Methylnaphthalene	142.0	ND	ND	ND
1-Methylnaphthalene	142.0	ND	ND	ND
Cyanogen	52	ND	ND	ND
Methylnitrite	61.0	ND	ND	ND
Acetonitrile	41.0	ND ND	ND	ND
Acrylonitrile Nitromethane	53.0 61.0	ND ND	ND ND	ND ND
Propanenitrile	55.0	, ND	ND ND	ND ND
2-Methylpropanenitrile	69.0	, ND	ND ND	ND ND
Pentanenitrile	83.0	ND	ND ND	ND ND
Hexanenitrile	97.0	ND	ND ND	ND ND
Benzonitrile	103.0	ND	ND ND	ND ND
2-Nitrophenol	139.0	ND ND	ND	ND ND
Acrolein	56.0	ND ND	ND	ND ND
Acetone	56.0	3.22	7.510E-03	7.510E-03
1-Hydroxy-2-propanone	74.0	ND	ND	ND
Furan	68.0	ND	ND	ND
2-Propanol	60.0	ND	ND	ND
2-Methylpropanal	74.0	ND	ND	ND
1-Propanol	60.0	ND	ND	ND
Methacrolein	70.0	ND	ND ·	ND
Methyl-vinyl Ketone	70.0	ND	ND	ND
MTBE	88.0	0.25	9.140E-04	9.140E-04
2,3-Butanedione	86.0	ND	ND	ND
Butanal	72.0	0.13	3.905E-04	3.905E-04
2-Butanone	72.0	0.32	9.694E-04	9.694E-04
2-Methyl-1,3-dioxolane	88.0	ND	ND	ND
2-Methylfuran	82.0	ND	ND	ND

TABLE E-3. AEC - BACKGROUND RUN NO. 1 GP TEST (31 MARCH 1998)

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Background Sample - Amount Detected, mg/m³	Average Background Concentration - Run 1, mg/m ³
Tetrahydrofuran	72.0	ND	ND	ND ND
trans-2-Butenal	70.0	ND	ND	ND ND
Acetic Acid	60.0	0.45	1.131E-03	1.131E-03
1-Butanol	74.0	ND	ND	ND
2-Pentanone	86.0	ND	ND	ND
Pentanal	86.0	0.33	1.187E-03	1.187E-03
1,4-Dioxane	88.0	ND	ND	ND
Methyl Methacrylate	100.0	ND	ND	ND
Cyclopentanone	84.0	ND	ND	ND ND
Hexanal	100.0	0.17	7.147E-04	7.147E-04
2-Furaldehyde	96.0	ND	ND	ND
Cyclohexanone	98.0	ND	ND	ND
Heptanal	114.0	0.12	5.849E-04	5.849E-04
2-Butoxyethanol	118.0	ND	ND	ND
Benzaldehyde	106.0	0.17	7.646E-04	7.646E-04
6-Methyl-5-hepten-2-one	126.0	0.18	9.693E-04	9.693E-04
Octanal	128.0	0.17	9.075E-04	9.075E-04
Benzofuran	118.0	ND	ND	ND
2-Ethyl-1-hexanol	120.0	ND	ND	ND
Acetophonone	120.0	ND	ND	ND
Nonanal	142.0	0.23	1.344E-03	1.344E-03
Decanal	156.0	0.16	1.007E-03	1.007E-03
Carbonyl Sulfide	60.0	0.07	1.869E-04	1.869E-04
Carbon Disulfide	76.0	0.17	5.277E-04	5.277E-04
Thiophene	84.0	ND	ND	ND
Dimethyldisulfide	94.0	ND	ND	ND

populari (2) Se coming a proportion de la proportion de l	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppbv	Detection Limit -Amount Detected, mg/m ³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m ³
TNMHC	-	0.1	1.000E-04	1.000E-04	1.000E-04
Ethane	30	0.1	1.000E-04	1.000E-04	1.000E-04
Ethylene	28	0.1	1.000E-04	1.000E-04	1.000E-04
Acetylene	26	0.1	1.000E-04	1.000E-04	1.000E-04
Propane	44	0.1	1.000E-04	1.000E-04	1.000E-04
Propene	42	0.1	1.000E-04	1.000E-04	1.000E-04
i-Butane	58	0.1	1.000E-04	1.000E-04	1.000E-04
i-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
1-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
1,3-Butadiene	54	0.1	1.000E-04	1.000E-04	1.000E-04
n-Butane	58	0.1	1.000E-04	1.000E-04	1.000E-04
trans-2-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
2,2-Dimethylpropane	72	0.1	1.000E-04	1.000E-04	1.000E-04
cis-2-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
3-Methyl-1-butene	70	0.1	1.000E-04	1.000E-04	1.000E-04
i-Pentane	72	0.1	1.000E-04	1.000E-04	1.000E-04
1-Pentene	70	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-1-butene	70	0.1	1.000E-04	1.000E-04	1.000E-04
n-Pentane	70	0.1	1.000E-04	1.000E-04	1.000E-04
Isoprene	68	0.1	1.000E-04	1.000E-04	1.000E-04
trans-2-Pentene	70	0.1	1.000E-04	1.000E-04	1.000E-04
cis-2-Pentene	70	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-2-butene	70	0.1	1.000E-04	1.000E-04	1.000E-04
2,2-Dimethylbutane	86	0.1	1.000E-04	1.000E-04	1.000E-04
Cyclopentene	68	0.1	1.000E-04	1.000E-04	1.000E-04
4-Methyl-1-pentene	84	0.1	1.000E-04	1.000E-04	1.000E-04
Cyclopentane	70	0.1	1.000E-04	1.000E-04	1.000E-04
2,3-Dimethylbutane	86	0.1	1.000E-04	1.000E-04	1.000E-04
cis-4-Methyl-2-pentene	84	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methylpentane	86	0.1	1.000E-04	1.000E-04	1.000E-04
3-Methylpentane	86	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-1-pentene	84	0.1	1.000E-04	1.000E-04	1.000E-04
1-Hexene	84	0.1	1.000E-04	1.000E-04	1.000E-04
n-Hexane	86	0.1	1.000E-04	1.000E-04	1.000E-04
trans-2-Hexene	84	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-2-pentene	84	0.1	1.000E-04	1.000E-04	
cis-2-Hexene	84	0.1	1.000E-04	1.000E-04	1.000E-04 1.000E-04
Methylcyclopentane	84	0.1	1.000E-04	1.000E-04	1.000E-04 1.000E-04
2,4-Dimethylpentane	100	0.1	1.000E-04		1.000E-04 1.000E-04
Benzene	78	0.1	·	1.000E-04	
Cyclohexane	84		1.000E-04	1.000E-04	1.000E-04
2-Methylhexane	100	0.1	1.000E-04	1.000E-04	1.000E-04
L Mourymexane	100	0.1	1.000E-04	1.000E-04	1.000E-04

TABLE E-4. AEC - RUN NO. 1 GP TEST (31 MARCH 1998)

		Detection Limit - Amount	Detection	Average Maximum	Average Minimum
		Detected,	Limit -Amount	1	Detection Limit -
inga isan	Molecular	ug/m³ or	Detected,	Concentration,	Concentration,
Analyte	Weight	ppbv	mg/m³	mg/m³	mg/m³
2,3-Dimethylpentane	100	0.1	1.000E-04	1.000E-04	1.000E-04
3-Methylhexane	100	0.1	1.000E-04	1.000E-04	1.000E-04
2,2,4-Trimethylpentane	114	0.1	1.000E-04	1.000E-04	1.000E-04
n-Heptane	100	0.1	1.000E-04	1.000E-04	1.000E-04
2,4,4-Trimethyl-1-pentene	112	0.1	1.000E-04	1.000E-04	1.000E-04
Methylcyclohexane	98	0.1	1.000E-04	1.000E-04	1.000E-04
2,4,4-Trimethyl-2-pentene	112	0.1	1.000E-04	1.000E-04	1.000E-04
2,5-Dimethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2,4-Dimethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2,3,4-Trimethylpentane	114	0.1	1.000E-04	1.000E-04	1.000E-04
Toluene	92	0.1	1.000E-04	1.000E-04	1.000E-04
2,3-Dimethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methylheptane	111	0.1	1.000E-04	1.000E-04	1.000E-04
3-Ethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04
2,2-Dimethylheptane	128	0.1	1.000E-04	1.000E-04	1.000E-04
2,2,4-Trimethylhexane	128	0.1	1.000E-04	1.000E-04	1.000E-04
n-Octane	114	0.1	1.000E-04	1.000E-04	1.000E-04
Ethylcyclohexane	112	0.1	1.000E-04	1.000E-04	1.000E-04
Ethylbenzene	160	0.1	1.000E-04	1.000E-04	1.000E-04
m-Xylene & p-Xylene	106	0.1	1.000E-04	1.000E-04	1.000E-04
Styrene	104	0.1	1.000E-04	1.000E-04	1.000E-04
o-Xylene	106	0.1	1.000E-04	1.000E-04	1.000E-04
n-Nonane	128	0.1	1.000E-04	1.000E-04	1.000E-04
i-Propylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
n-Propylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
p-Ethyltoluene	120	0.1	1.000E-04	1.000E-04	1.000E-04
m-Ethyltoluene	120	0.1	1.000E-04	1.000E-04	1.000E-04
1,3,5-Trimethylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
o-Ethyltoluene	120	0.1	1.000E-04	1.000E-04	1.000E-04
1,2,4-Trimethylbenzene & sec-					
Butylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04
n-Decane	142	0.1	1.000E-04	1.000E-04	1.000E-04
alpha-Pinene	136	0.1	1.000E-04	1.000E-04	1.000E-04
beta-Pinene	136	0.1	1.000E-04	1.000E-04	1.000E-04
delta 3-Carene	136	0.1	1.000E-04	1.000E-04	1.000E-04
d-Limonene	136	0.1	1.000E-04	1.000E-04	1.000E-04
MTBE	88	0.1	1.000E-04	1.000E-04	1.000E-04
ETBE	102.0	0.1	1.000E-04	1.000E-04	1.000E-04
Dichlorodifluoromethane	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Methylchloride	50.0	0.1	2.080E-04	2.080E-04	2.080E-04
Dichlorotetrafluoroethane	171.0	0.1	7.114E-04	7.114E-04	7.114E-04

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppby	Detection Limit -Amount Detected, mg/m ³	Average Maximum Detection Limit - Concentration, mg/m ³	Average Minimum Detection Limit - Concentration, mg/m ³
Chloroethene	63.0	0.1	2.621E-04	2.621E-04	2.621E-04
1,3-Butadiene	54.0	0.1	2.246E-04	2.246E-04	2.246E-04
Methylbromide	95.0	0.1	3.952E-04	3.952E-04	3.952E-04
Ethylchloride	64.5	0.1	2.683E-04	2.683E-04	2.683E-04
Trichloromonofluoromethane	137.0	0.1	5.699E-04	5.699E-04	5.699E-04
Vinylidenechloride	97.0	0.1	4.035E-04	4.035E-04	4.035E-04
Methylenechloride	85.0	0.1	3.536E-04	3.536E-04	3.536E-04
Allylchloride	76.5	0.1	3.182E-04	3.182E-04	3.182E-04
1,1,2-Trichloro-1,2,2-					
trifluoroethane	188.0	0.1	7.821E-04	7.821E-04	7.821E-04
1,1-Dichloroethane	99.0	0.1	4.118E-04	4.118E-04	4.118E-04
1,2-Dichloroethene	97.0	0.1	4.035E-04	4.035E-04	4.035E-04
Chloroform	119.0	0.1	4.950E-04	4.950E-04	4.950E-04
1,2-Dichloroethane	99.0	0.1	4.118E-04	4.118E-04	4.118E-04
Methylchloroform	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
Benzene	78.0	0.1	3.245E-04	3.245E-04	3.245E-04
Carbontetrachloride	154.0	0.1	6.406E-04	6.406E-04	6.406E-04
1,2-Dichloropropane	113.0	0.1	4.701E-04	4.701E-04	4.701E-04
Trichloroethylene	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
cis 1,3-Dichloro-1-propene	111.0	0.1	4.618E-04	4.618E-04	4.618E-04
trans 1,3-Dichloro-1-propene	111.0	0.1	4.618E-04	4.618E-04	4.618E-04
1,1,2-Trichloroethane	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
Toluene	92.0	0.1	3.827E-04	3.827E-04	3.827E-04
1,2-Dibromoethane	188.0	0.1	7.821E-04	7.821E-04	7.821E-04
Perchloroethylene	166.0	0.1	6.906E-04	6.906E-04	6.906E-04
Chlorobenzene	113.0	0.1	4.701E-04	4.701E-04	4.701E-04
Ethylbenzene	160.0	0.1	6.656E-04	6.656E-04	6.656E-04
m&p-Xylene	106.0	0.1	4.410E-04	4.410E-04	4.410E-04
Styrene	104.0	0.1	4.326E-04	4.326E-04	4.326E-04
1,1,2,2-Tetrachloroethane	168.0	0.1	6.989E-04	6.989E-04	6.989E-04
o-Xylene	106.0	0.1	4.410E-04	4.410E-04	
p-Ethyltoluene	120.0	0.1	4.992E-04	4.992E-04	4.410E-04 4.992E-04
1,3,5-Trimethylbenzene	120.0	0.1	4.992E-04	4.992E-04 4.992E-04	
1,2,4-Trimethylbenzene	120.0	0.1	4.992E-04	4.992E-04 4.992E-04	4.992E-04
Benzylchloride	127.0	0.1	5.283E-04	5.283E-04	4.992E-04
m-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04	5.283E-04
o-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04 6.115E-04	6.115E-04
o-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04 6.115E-04	6.115E-04
1,2,4-Trichlorobenzene	181.0	0.1	7.530E-04		6.115E-04
Hexachlorobutadiene	261.0			7.530E-04	7.530E-04
Phenylacetylene	102.0	0.1	1.086E-03	1.086E-03	1.086E-03
ndane	118.0	0.1 0.1	4.243E-04 4.909E-04	4.243E-04 4.909E-04	4.243E-04 4.909E-04

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppbv	Detection Limit -Amount Detected, mg/m³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
2,3-Dihydro-1-methyl-1H-indene	132.0	0.1	5.491E-04	5.491E-04	5.491E-04
2,3-Dihydro-4-methyl-1H-indene	132.0	0.1	5.491E-04	5.491E-04	5.491E-04
	128.0	0.1	5.325E-04	5.325E-04	5.325E-04
Naphthalene	142.0	0.1	5.907E-04	5.907E-04	5.907E-04
2-Methylnaphthalene			5.907E-04	5.907E-04	5.907E-04
1-Methylnaphthalene	142.0	0.1			2.163E-04
Cyanogen	52	0.1	2.163E-04	2.163E-04	
Methylnitrite	61.0	0.1	2.538E-04	2.538E-04	2.538E-04
Acetonitrile	41.0	0.1	1.706E-04	1.706E-04	1.706E-04
Acrylonitrile	53.0	0.1	2.205E-04	2.205E-04	2.205E-04
Nitromethane	61.0	0.1	2.538E-04	2.538E-04	2.538E-04
Propanenitrile	55.0	0.1	2.288E-04	2.288E-04	2.288E-04
2-Methylpropanenitrile	69.0	0.1	2.870E-04	2.870E-04	2.870E-04
Pentanenitrile	83.0	0.1	3.453E-04	3.453E-04	3.453E-04
Hexanenitrile	97.0	0.1	4.035E-04	4.035E-04	4.035E-04
Benzonitrile	103.0	0.1	4.285E-04	4.285E-04	4.285E-04
2-Nitrophenol	139.0	0.1	5.782E-04	5.782E-04	5.782E-04
Acrolein	56.0	0.1	2.330E-04	2.330E-04	2.330E-04
Acetone	56.0	0.1	2.330E-04	2.330E-04	2.330E-04
1-Hydroxy-2-propanone	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
Furan	68.0	0.1	2.829E-04	2.829E-04	2.829E-04
2-Propanol	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
2-Methylpropanal	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
1-Propanol	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
Methacrolein	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
Methyl-vinyl Ketone	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
MTBE	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
2,3-Butanedione	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
Butanal	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
2-Butanone	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
2-Methyl-1,3-dioxolane	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
2-Methylfuran	82.0	0.1	3.411E-04	3.411E-04	3.411E-04
Tetrahydrofuran	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
trans-2-Butenal	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
Acetic Acid	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
1-Butanol	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
2-Pentanone	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
Pentanal	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
1,4-Dioxane	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
Methyl Methacrylate	100.0	0.1	4.160E-04	4.160E-04	4.160E-04
Cyclopentanone	84.0	0.1	3.494E-04	3.494E-04	3.494E-04
Hexanal	100.0	0.1	4.160E-04	4.160E-04	4.160E-04
2-Furaldehyde	96.0	0.1	3.994E-04	3.994E-04	3.994E-04

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppby	Detection Limit -Amount Detected, mg/m³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m ³
Cyclohexanone	98.0	0.1	4.077E-04	4.077E-04	4.077E-04
Heptanal	114.0	0.1	4.742E-04	4.742E-04	4.742E-04
2-Butoxyethanol	118.0	0.1	4.909E-04	4.909E-04	4.909E-04
Benzaldehyde	106.0	0.1	4.410E-04	4.410E-04	4.410E-04
6-Methyl-5-hepten-2-one	126.0	0.1	5.242E-04	5.242E-04	5.242E-04
Octanal	128.0	0.1	5.325E-04	5.325E-04	5.325E-04
Benzofuran	118.0	0.1	4.909E-04	4.909E-04	4.909E-04
2-Ethyl-1-hexanol	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Acetophonone	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Nonanal	142.0	0.1	5.907E-04	5.907E-04	5.907E-04
Decanal	156.0	0.1	6.490E-04	6.490E-04	6.490E-04
Carbonyl Sulfide	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
Carbon Disulfide	76.0	0.1	3.162E-04	3.162E-04	3.162E-04
Thiophene	84.0	0.1	3.494E-04	3.494E-04	3.494E-04
Dimethyldisulfide	94.0	0.1	3.910E-04	3.910E-04	3.910E-04

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WHITE PARACHUTE SIGNAL FLARE

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TABLE E-1. AEC - RUN NO. 1 WP TEST (1 APRIL 1998)

	Run 1 Sample 1 - Amount Detected, ug/m³	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ug/m ³	Run 1 Sample 2 - Amount Detected, mg/m³	Average Concentration - Run 1, mg/m ³
TNMHC	138.30	1.383E-01	130.40	1.304E-01	1.344E-01
Ethane	4.00	4.000E-03	4.00	4.000E-03	4.000E-03
Ethylene	11.90	1.190E-02	12.00	1.200E-02	1.195E-02
Acetylene	7.20	7.200E-03	7.40	7.400E-03	7.300E-03
Propane	1.60	1.600E-03	1.90	1.900E-03	
Propene	4.30	4.300E-03	4.70	4.700E-03	1.750E-03 4.500E-03
i-Butane	3.80	3.800E-03	3.80	3.800E-03	3.800E-03
i-Butane	0.80	8.000E-04	0.90	9.000E-03	8.500E-03
1-Butene	0.70	7.000E-04	0.90	8.000E-04	7.500E-04
1,3-Butadiene	0.80	8.000E-04	0.70	7.000E-04	7.500E-04 7.500E-04
n-Butane	1.70	1.700E-03	1.60	1.600E-03	1.650E-03
trans-2-Butene	1.50	1.500E-03	0.80	8.000E-04	1.150E-03
2,2-Dimethylpropane	ND	ND	ND	ND	ND
cis-2-Butene	0.20	2.000E-04	0.20	2.000E-04	2.000E-04
3-Methyl-1-butene	0.10	1.000E-04	0.10	1.000E-04	1.000E-04
i-Pentane	3.50	3.500E-03	3.50	3.500E-03	3.500E-03
1-Pentene	0.20	2.000E-04	0.20	2.000E-04	2.000E-04
2-Methyl-1-butene	0.20	2.000E-04	0.30	3.000E-04	2.500E-04
n-Pentane	2.90	2.900E-03	2.80	2.800E-03	2.850E-03
Isoprene	ND	ND	ND ND	ND	ND
trans-2-Pentene	ND	ND	0.20	2.000E-04	2.000E-04
cis-2-Pentene	ND	ND	ND	ND	ND
2-Methyl-2-butene	ND	ND	ND	ND	ND
2,2-Dimethylbutane	0.40	4.000E-04	0.40	4.000E-04	4.000E-04
Cyclopentene	ND	ND	ND	ND	ND
4-Methyl-1-pentene	ND	ND	ND	ND	ND
Cyclopentane	0.20	2.000E-04	0.20	2.000E-04	2.000E-04
2,3-Dimethylbutane	1.10	1.100E-03	1.00	1.000E-03	1.050E-03
cis-4-Methyl-2-pentene	ND	ND	ND	ND	ND
2-Methylpentane	2.80	2.800E-03	2.80	2.800E-03	2.800E-03
3-Methylpentane	0.20	2.000E-04	0.20	2.000E-04	2.000E-04
2-Methyl-1-pentene	ND	ND	ND	ND	ND
1-Hexene	0.20	2.000E-04	0.40	4.000E-04	3.000E-04
n-Hexane	2.80	2.800E-03	2.80	2.800E-03	2.800E-03
trans-2-Hexene	ND	ND	ND	ND	ND
2-Methyl-2-pentene	ND	ND	ND	ND	ND
cis-2-Hexene	ND	ND	ND	ND	ND
Methylcyclopentane	1.30	1.300E-03	1.30	1.300E-03	1.300E-03
2,4-Dimethylpentane	2.00	2.000E-03	2.00	2.000E-03	2.000E-03
Benzene	7.50	7.500E-03	7.50	7.500E-03	7.500E-03

TABLE E-1. AEC - RUN NO. 1 WP TEST (1 APRIL 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ug/m³	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ug/m ³	Run 1 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 1, mg/m ³
Cyclohexane	0.80	8.000E-04	0.80	8.000E-04	8.000E-04
2-Methylhexane	1.20	1.200E-03	1.10	1.100E-03	1.150E-03
2,3-Dimethylpentane	3.80	3.800E-03	3.80	3.800E-03	3.800E-03
3-Methylhexane	1.30	1.300E-03	1.30	1.300E-03	1.300E-03
2,2,4-Trimethylpentane	7.40	7.400E-03	7.30	7.300E-03	7.350E-03
n-Heptane	1.10	1.100E-03	1.10	1.100E-03	1.100E-03
2,4,4-Trimethyl-1-pentene	ND	ND	ND	ND	ND
Methylcyclohexane	0.70	7.000E-04	0.70	7.000E-04	7.000E-04
2,4,4-Trimethyl-2-pentene	ND	ND	ND	ND	ND
2,5-Dimethylhexane	0.50	5.000E-04	0.50	5.000E-04	5.000E-04
2,4-Dimethylhexane	0.80	8.000E-04	0.80	8.000E-04	8.000E-04
2,3,4-Trimethylpentane	1.60	1.600E-03	1.60	1.600E-03	1.600E-03
Toluene	8.50	8.500E-03	8.60	8.600E-03	8.550E-03
2,3-Dimethylhexane	0.50	5.000E-04	0.70	7.000E-04	6.000E-04
2-Methylheptane	0.30	3.000E-04	0.40	4.000E-04	3.500E-04
3-Ethylhexane	ND	ND	ND	ND	ND
2,2-Dimethylheptane	ND	ND	ND	ND	ND
2,2,4-Trimethylhexane	0.40	4.000E-04	0.40	4.000E-04	4.000E-04
n-Octane	0.30	3.000E-04	0.30	3.000E-04	3.000E-04
Ethylcyclohexane	ND	ND	ND	ND	ND
Ethylbenzene	1.10	1.100E-03	1.00	1.000E-03	1.050E-03
m-Xylene & p-Xylene	4.10	4.100E-03	3.80	3.800E-03	3.950E-03
Styrene	0.70	7.000E-04	0.60	6.000E-04	6.500E-04
o-Xylene	1.40	1.400E-03	1.30	1.300E-03	1.350E-03
n-Nonane	0.40	4.000E-04	0.20	2.000E-04	3.000E-04
i-Propylbenzene	ND	ND	ND	ND	ND
n-Propylbenzene	0.40	4.000E-04	0.20	2.000E-04	3.000E-04
p-Ethyltoluene	0.90	9.000E-04	0.80	8.000E-04	8.500E-04
m-Ethyltoluene	0.50	5.000E-04	0.40	4.000E-04	4.500E-04
1,3,5-Trimethylbenzene	0.50	5.000E-04	0.40	4.000E-04	4.500E-04
o-Ethyltoluene	0.50	5.000E-04	0.30	3.000E-04	4.000E-04
1,2,4-Trimethylbenzene & sec-				1	
Butylbenzene	1.30	1.300E-03	1.10	1.100E-03	1.200E-03
n-Decane	0.40	4.000E-04	0.10	1.000E-04	2.500E-04
alpha-Pinene	ND	ND	ND	ND	ND
beta-Pinene	ND	ND	ND	ND	ND
delta 3-Carene	ND	ND	ND	ND	ND
d-Limonene	ND	ND	ND	ND	ND
MTBE	1.80	1.800E-03	1.80	1.800E-03	1.800E-03
ETBE	ND	ND	ND	ND	ND

TABLE E-2. AEC - RUN NO. 1 WP TEST (1 APRIL 1998)

Mary State of State o	Run 1 Sample 1 - Amount Detected, ppbv	Run 1 Sample 1 - Amount Detected, mg/m³	Run 1 Sample 2 - Amount Detected, ppbv	Run 1 Sample 2 - Amount Detected, mg/m³	Average Concentration - Run 1, ppbv
Dichlorodifluoromethane	0.361	-	0.366	-	3.635E-01
Methylchloride	ND	-	ND	•	ND
Dichlorotetrafluoroethane	ND	_	ND	-	ND
Chloroethene	ND	-	ND	-	ND
1,3-Butadiene	0.362	-	0.317		3.396E-01
Methylbromide	ND	-	ND	-	ND
Ethylchloride	ND	-	ND	-	ND
Trichloromonofluoromethane	0.451	-	0.454	-	4.527E-01
Vinylidenechloride	ND	-	ND	-	ND
Methylenechloride	0.939	-	0.948	-	9.435E-01
Allylchloride	ND	-	ND	-	ND
1,1,2-Trichloro-1,2,2- trifluoroethane	0.111	-	0.114	-	1.124E-01
1,1-Dichloroethane	ND	-	ND	_	ND
1,2-Dichloroethene	ND	-	ND	_	ND
Chloroform	ND	-	ND	-	ND
1,2-Dichloroethane	ND	-	ND	-	ND
Methylchloroform	0.071	-	0.069	-	7.024E-02
Benzene	2.351	-	2.351	-	2.351E+00
Carbontetrachloride	0.127	-	0.133	•	1.301E-01
1,2-Dichloropropane	ND	-	ND	•	ND
Trichloroethylene	ND	-	ND	•	ND
cis 1,3-Dichloro-1-propene	ND	-	ND	-	ND
trans 1,3-Dichloro-1-propene	ND	-	ND	-	ND
1,1,2-Trichloroethane	ND	-	ND	-	ND
Toluene	2.259	-	2.286	•	2.272E+00
1,2-Dibromoethane	ND	-	ND	-	ND
Perchloroethylene	ND	-	ND	•	ND
Chlorobenzene	ND	-	ND	-	ND
Ethylbenzene	0.254	-	0.231	•	2.422E-01
m&p-Xylene	0.863	-	0.773	-	8.179E-01
Styrene	ND	-	0.051	-	5.072E-02
1,1,2,2-Tetrachloroethane	ND	-	ND	-	ND
o-Xylene	0.323	-	0.300	-	3.114E-01
p-Ethyltoluene	0.113	-	0.110	-	1.116E-01
1,3,5-Trimethylbenzene	0.062	-	0.053	-	5.749E-02
1,2,4-Trimethylbenzene	0.194	-	0.185	-	1.896E-01
Benzylchloride	ND	-	ND	-	ND
m-Dichlorobenzene	ND	-	ND	-	ND
p-Dichlorobenzene	ND	-	ND	**	ND
o-Dichlorobenzene	ND		ND		ND

TABLE E-2. AEC - RUN NO. 1 WP TEST (1 APRIL 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ppbv	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ppbv	Run 1 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 1, ppbv
1,2,4-Trichlorobenzene	ND	-	ND	-	ND
Hexachlorobutadiene	ND	-	ND	-	ND
Phenylacetylene	ND	-	ND	-	ND
Indane	ND	-	ND	-	ND
2,3-Dihydro-1-methyl-1H-indene	ND	-	ND	-	ND
2,3-Dihydro-4-methyl-1H-indene	ND	•	ND	-	ND
Naphthalene	0.185	_	0.155	-	1.702E-01
2-Methylnaphthalene	ND	-	ND	_	ND
1-Methylnaphthalene	ND	-	ND	-	ND
Cyanogen	ND ND	_	ND	-	ND
Methylnitrite	0.163		0.175	-	1.687E-01
Acetonitrile	0.451	-	0.434	_	4.425E-01
Acrylonitrile	0.386		0.393		3.897E-01
Nitromethane	0.286	•	0.383	-	3.344E-01
Propanenitrile	ND	-	ND	_	ND ND
2-Methylpropanenitrile	ND		ND	-	ND
Pentanenitrile	ND		ND	-	ND
Hexanenitrile	ND	-	ND	_	ND
Benzonitrile	0.076	-	0.085	-	8.070E-02
2-Nitrophenol	ND	-	ND	-	ND
Acrolein	0.239		0.194		2.163E-01
Acetone	4.745	_	4.383		4.564E+00
1-Hydroxy-2-propanone	ND		ND	-	ND
Furan	0.057		ND ND	-	5.653E-02
2-Propanol	ND	-	ND ND	-	ND
2-Methylpropanal	ND		ND	-	ND
1-Propanol	ND		ND	-	ND
Methacrolein	ND	-	ND	_	ND ND
Methyl-vinyl Ketone	ND	_	ND	-	ND
MTBE	0.462		0.485		4.737E-01
2,3-Butanedione	ND	-	ND	-	ND ND
Butanal	ND		ND	_	ND
2-Butanone	0.693	_	0.564	-	6.283E-01
2-Methyl-1,3-dioxolane	ND		ND	-	ND
			ND ND		ND ND
2-Methylfuran	ND ND	_	ND ND	-	ND ND
Tetrahydrofuran		-		-	6.252E-02
trans-2-Butenal	0.061	-	0.064		
Acetic Acid	0.557	-	0.607	-	5.820E-01
1-Butanol	ND 0.150	-	ND 0.450	-	ND
2-Pentanone	0.159	*	0.156	-	1.574E-01
Pentanal	0.132	-	0.324	-	2.279E-01

Analyte	Run 1 Sample 1 - Amount Detected, ppbv	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ppbv	Run 1 Sample 2 - Amount Detected, mg/m³	Average Concentration - Run 1, ppbv
1,4-Dioxane	ND	-	ND	•	ND
Methyl Methacrylate	ND	-	ND	-	ND
Cyclopentanone	ND	-	ND	-	ND
Hexanal	0.243	-	0.211	-	2.273E-01
2-Furaldehyde	0.081	_	0.069	-	7.499E-02
Cyclohexanone	ND	-	ND	•	ND
Heptanal	0.167	-	0.170	-	1.682E-01
2-Butoxyethanol	ND	-	ND	-	ND
Benzaldehyde	0.435	-	0.413	-	4.242E-01
6-Methyl-5-hepten-2-one	ND	-	ND		ND
Octanal	0.357	-	0.362	-	3.597E-01
Benzofuran	ND	-	ND	-	ND
2-Ethyl-1-hexanol	ND	-	ND	-	ND
Acetophonone	0.064	-	0.061	-	6.252E-02
Nonanal	0.484	-	0.462	-	4.733E-01
Decanal	0.184	-	0.390	-	2.871E-01
Carbonyl Sulfide	0.119	•	0.120	-	1.195E-01
Carbon Disulfide	2.845	-	3.015	-	2.930E+00
Thiophene	0.085	-	0.076	-	8.071E-02
Dimethyldisulfide	ND	-	ND	-	ND

TABLE E-3. AEC - BACKGROUND RUN NO. 1 WP TEST (1 APRIL 1998)

		Run 1 Background Sample -	Run 1 Background	A TOTAL TOTA
	Note to the	Amount	Sample -	Average
		Detected,	Amount	Background
male made to the control of the cont	Molecular	ug/m³ or	Detected,	Concentration -
A malada	Weight	ppbv	mg/m³	Run 1, mg/m³
Analyte	Weight	<u> </u>		
TNMHC	-	97.40	9.740E-02	9.740E-02
Ethane	30	3.10	3.100E-03	3.100E-03
Ethylene	28	2.80	2.800E-03	2.800E-03
Acetylene	26	4.50	4.500E-03	4.500E-03
Propane	44	1.50	1.500E-03	1.500E-03
Propene	42	1.30	1.300E-03	1.300E-03
i-Butane	58	3.40	3.400E-03	3.400E-03
i-Butene	56	0.50	5.000E-04	5.000E-04
1-Butene	56	0.20	2.000E-04	2.000E-04
1,3-Butadiene	54	0.20	2.000E-04	2.000E-04
n-Butane	58	1.80	1.800E-03	1.800E-03
trans-2-Butene	56	0.20	2.000E-04	2.000E-04
2,2-Dimethylpropane	72	ND	ND	ND
cis-2-Butene	56	0.10	1.000E-04	1.000E-04
3-Methyl-1-butene	70	0.10	1.000E-04	1.000E-04
i-Pentane	72	3.80	3.800E-03	3.800E-03
1-Pentene	70	0.10	1.000E-04	1.000E-04
2-Methyl-1-butene	70	0.10	1.000E-04	1.000E-04
n-Pentane	72	3.20	3.200E-03	3.200E-03
Isoprene	68	0.10	1.000E-04	1.000E-04
trans-2-Pentene	70	0.10	1.000E-04	1.000E-04
cis-2-Pentene	70	0.10	1.000E-04	1.000E-04
2-Methyl-2-butene	70	0.20	2.000E-04	2.000E-04
2,2-Dimethylbutane	86	0.40	4.000E-04	4.000E-04
Cyclopentene	68	ND	ND	ND
4-Methyl-1-pentene	84	ND	ND	ND
Cyclopentane	70	0.30	3.000E-04	3.000E-04
2,3-Dimethylbutane	86	1.10	1.100E-03	1.100E-03
cis-4-Methyl-2-pentene	84	ND	ND	ND
2-Methylpentane	86	4.00	4.000E-03	4.000E-03
3-Methylpentane	86	2.00	2.000E-03	2.000E-03
2-Methyl-1-pentene	84	ND	ND	ND
1-Hexene	84	ND	ND	ND
n-Hexane	86	2.90	2.900E-03	2.900E-03
trans-2-Hexene	84	0.10	1.000E-04	1.000E-04
2-Methyl-2-pentene	84	0.10	1.000E-04	1.000E-04
cis-2-Hexene	84	0.10	1.000E-04	1.000E-04
Methylcyclopentane	84	1.20	1.200E-03	1.200E-03
2,4-Dimethylpentane	100	1.40	1.400E-03	1.400E-03
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TABLE E-3. AEC - BACKGROUND RUN NO. 1 WP TEST (1 APRIL 1998)

insertice in the complete service of the complete service in the complete serv	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppby	Run 1 Background Sample - Amount Detected, mg/m ³	Average Background Concentration - Run 1, mg/m ³
Benzene	78	3.40	3.400E-03	3.400E-03
Cyclohexane	84	1.00	1.000E-03	1.000E-03
2-Methylhexane	100	1.10	1.100E-03	1.100E-03
2,3-Dimethylpentane	100	3.80	3.800E-03	3.800E-03
3-Methylhexane	100	1.40	1.400E-03	1.400E-03
2,2,4-Trimethylpentane	114	7.40	7.400E-03	7.400E-03
n-Heptane	100	1.10	1.100E-03	1.100E-03
2,4,4-Trimethyl-1-pentene	112	ND	ND	ND
Methylcyclohexane	98	0.80	8.000E-04	8.000E-04
2,4,4-Trimethyl-2-pentene	112	ND	ND	ND
2,5-Dimethylhexane	114	0.50	5.000E-04	5.000E-04
2,4-Dimethylhexane	114	0.80	8.000E-04	8.000E-04
2,3,4-Trimethylpentane	114	1.60	1.600E-03	1.600E-03
Toluene	92	7.80	7.800E-03	7.800E-03
2,3-Dimethylhexane	114	0.50	5.000E-04	5.000E-04
2-Methylheptane	111	0.30	3.000E-04	3.000E-04
3-Ethylhexane	114	ND	ND	ND
2,2-Dimethylheptane	128	ND	ND	ND
2,2,4-Trimethylhexane	128	0.40	4.000E-04	4.000E-04
n-Octane	114	0.30	3.000E-04	3.000E-04
Ethylcyclohexane	112	ND	ND	ND
Ethylbenzene	160	0.80	8.000E-04	8.000E-04
m-Xylene & p-Xylene	106	3.50	3.500E-03	3.500E-03
Styrene	104	0.50	5.000E-04	5.000E-04
o-Xylene	106	1.10	1.100E-03	1.100E-03
n-Nonane	128	0.10	1.000E-04	1.000E-04
i-Propylbenzene	120	ND	ND	ND
n-Propylbenzene	120	0.20	2.000E-04	2.000E-04
p-Ethyltoluene	120	0.70	7.000E-04	7.000E-04
m-Ethyltoluene	120	0.30	3.000E-04	3.000E-04
1,3,5-Trimethylbenzene	120	0.40	4.000E-04	4.000E-04
o-Ethyltoluene	120	0.20	2.000E-04	2.000E-04
1,2,4-Trimethylbenzene & sec-				
Butylbenzene	120	1.00	1.000E-03	1.000E-03
n-Decane	142	0.10	1.000E-04	1.000E-04
alpha-Pinene	136	ND	ND	ND
beta-Pinene	136	ND	ND	ND
delta 3-Carene	136	ND	ND	ND
d-Limonene	136	ND	ND	ND

TABLE E-3. AEC - BACKGROUND RUN NO. 1 WP TEST (1 APRIL 1998)

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m ³	Average Background Concentration - Run 1, mg/m ³
MTBE	88	1.80	1.800E-03	1.800E-03
ETBE	102.0	ND	ND	ND
Dichlorodifluoromethane	120.0	0.29	1.432E-03	1.432E-03
Methylchloride	50.0	ND	ND	ND
Dichlorotetrafluoroethane	171.0	ND	ND	ND
Chloroethene	63.0	ND	ND	ND
1,3-Butadiene	54.0	0.09	2.034E-04	2.034E-04
Methylbromide	95.0	ND	ND	ND
Ethylchloride	64.5	ND	ND	ND
Trichloromonofluoromethane	137.0	0.46	2.612E-03	2.612E-03
Vinylidenechloride	97.0	ND	ND	ND
Methylenechloride	85.0	0.36	1.287E-03	1.287E-03
Allylchloride	76.5	ND	ND	ND
1,1,2-Trichloro-1,2,2-				
trifluoroethane	188.0	0.11	8.801E-04	8.801E-04
1,1-Dichloroethane	99.0	ND	ND ND	ND
1,2-Dichloroethene	97.0	ND	ND	ND
Chloroform	119.0	ND	ND	ND ND
1,2-Dichloroethane	99.0	ND	ND ND	ND 0.5475.04
Methylchloroform	133.0	0.06	3.547E-04	3.547E-04
Benzene	78.0	1.07	3.458E-03	3.458E-03
Carbontetrachloride	154.0	0.12	7.438E-04	7.438E-04
1,2-Dichloropropane	113.0	ND	ND	ND
Trichloroethylene	133.0	ND	ND	ND ND
cis 1,3-Dichloro-1-propene	111.0	ND ND	ND	ND
trans 1,3-Dichloro-1-propene	111.0	ND ND	ND ND	ND
1,1,2-Trichloroethane	133.0	ND 0.07	ND	ND 7.024F.02
Toluene	92.0	2.07	7.934E-03	7.934E-03
1,2-Dibromoethane	188.0	ND ND	ND	ND ND
Perchloroethylene	166.0	ND	ND ND	ND ND
Chlorobenzene	113.0	ND 0.10	ND	ND
Ethylbenzene	160.0	0.18	1.228E-03	1.228E-03
m&p-Xylene	106.0	0.81	3.585E-03	3.585E-03 ND
Styrene	104.0	ND	ND ND	ND
1,1,2,2-Tetrachloroethane	168.0	ND 0.05		A CONTRACTOR OF THE PARTY OF TH
o-Xylene	106.0	0.25	1.119E-03	1.119E-03
p-Ethyltoluene	120.0	0.11	5.604E-04	5.604E-04
1,3,5-Trimethylbenzene	120.0	0.06	2.845E-04	2.845E-04
1,2,4-Trimethylbenzene	120.0	0.19	9.399E-04	9.399E-04

TABLE E-3. AEC - BACKGROUND RUN NO. 1 WP TEST (1 APRIL 1998)

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppby	Run 1 Background Sample - Amount Detected, mg/m³	Average Background Concentration - Run 1, mg/m ³
Benzylchloride	127.0	ND	ND	ND
m-Dichlorobenzene	147.0	ND	ND	ND
p-Dichlorobenzene	147.0	ND	ND	ND
o-Dichlorobenzene	147.0	ND	ND	ND
1,2,4-Trichlorobenzene	181.0	ND	ND	ND
Hexachlorobutadiene	261.0	ND	ND	ND
Phenylacetylene	102.0	ND	ND	ND
Indane	118.0	ND	ND	ND
2,3-Dihydro-1-methyl-1H-indene	132.0	ND	ND	ND
2,3-Dihydro-4-methyl-1H-indene	132.0	ND	ND	ND
Naphthalene	128.0	0.08	4.279E-04	4.279E-04
2-Methylnaphthalene	142.0	ND	ND	ND
1-Methylnaphthalene	142.0	ND	· ND	ND
Cyanogen	52	ND	ND	ND
Methylnitrite	61.0	ND	ND	ND
Acetonitrile	41.0	ND	ND	ND
Acrylonitrile	53.0	ND	ND	ND
Nitromethane	61.0	ND	ND	ND
Propanenitrile	55.0	ND	ND	ND
2-Methylpropanenitrile	69.0	ND	ND	ND
Pentanenitrile	83.0	ND	ND	ND
Hexanenitrile	97.0	ND	ND	ND
Benzonitrile	103.0	ND	ND	ND
2-Nitrophenol	139.0	ND	ND	ND
Acrolein	56.0	ND	ND	ND
Acetone	56.0	3.58	8.348E-03	8.348E-03
1-Hydroxy-2-propanone	74.0	ND	ND	ND
Furan	68.0	ND	ND	ND
2-Propanol	60.0	ND	ND	ND
2-Methylpropanal	74.0	ND	ND	ND
1-Propanol	60.0	ND	ND	ND
Methacrolein	70.0	ND	ND	ND
Methyl-vinyl Ketone	70.0	ND	ND	ND
MTBÉ	88.0	0.46	1.677E-03	1.677E-03
2,3-Butanedione	86.0	ND	ND	ND
Butanal	72.0	0.13	3.764E-04	3.764E-04
2-Butanone	72.0	0.35	1.053E-03	1.053E-03
2-Methyl-1,3-dioxolane	88.0	ND	ND	ND
2-Methylfuran	82.0	ND	ND	ND

TABLE E-3. AEC - BACKGROUND RUN NO. 1 WP TEST (1 APRIL 1998)

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m³	Average Background Concentration - Run 1, mg/m ³
Tetrahydrofuran	72.0	ND	ND	ND
trans-2-Butenal	70.0	ND	ND	ND
Acetic Acid	60.0	0.49	1.211E-03	1.211E-03
1-Butanol	74.0	ND	ND	ND
2-Pentanone	86.0	ND	ND	ND
Pentanal	86.0	0.50	1.785E-03	1.785E-03
1,4-Dioxane	88.0	ND	ND	ND
Methyl Methacrylate	100.0	ND	ND	ND
Cyclopentanone	84.0	ND	ND	ND
Hexanal	100.0	0.34	1.397E-03	1.397E-03
2-Furaldehyde	96.0	ND	ND	ND
Cyclohexanone	98.0	ND	ND	ND
Heptanal	114.0	0.16	7.488E-04	7.488E-04
2-Butoxyethanol	118.0	ND	ND	ND
Benzaldehyde	106.0	0.20	8.702E-04	8.702E-04
6-Methyl-5-hepten-2-one	126.0	0.18	9.276E-04	9.276E-04
Octanal	128.0	0.34	1.799E-03	1.799E-03
Benzofuran	118.0	ND	ND	ND
2-Ethyl-1-hexanol	120.0	ND	ND	ND
Acetophonone	120.0	ND	ND	ND
Nonanal	142.0	0.47	2.754E-03	2.754E-03
Decanal	156.0	0.29	1.907E-03	1.907E-03
Carbonyl Sulfide	60.0	0.08	1.934E-04	1.934E-04
Carbon Disulfide	76.0	0.18	5.646E-04	5.646E-04
Thiophene	84.0	ND	ND	ND
Dimethyldisulfide	94.0	ND	ND	ND

parties of the second s	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppbv	Detection Limit -Amount Detected, mg/m ³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
TNMHC	-	0.1	1.000E-04	1.000E-04	1.000E-04
Ethane	30	0.1	1.000E-04	1.000E-04	1.000E-04
Ethylene	28	0.1	1.000E-04	1.000E-04	1.000E-04
Acetylene	26	0.1	1.000E-04	1.000E-04	1.000E-04
Propane	44	0.1	1.000E-04	1.000E-04	1.000E-04
Propene	42	0.1	1.000E-04	1.000E-04	1.000E-04
i-Butane	58	0.1	1.000E-04	1.000E-04	1.000E-04
i-Butane	56	0.1	1.000E-04	1.000E-04	1.000E-04
1-Butene .	56	0.1	1.000E-04	1.000E-04	1.000E-04
1,3-Butadiene	54	0.1	1.000E-04	1.000E-04	1.000E-04
n-Butane	58	0.1	1.000E-04	1.000E-04	1.000E-04
trans-2-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
2,2-Dimethylpropane	72	0.1	1.000E-04	1.000E-04	1.000E-04
cis-2-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
3-Methyl-1-butene	70	0.1	1.000E-04	1.000E-04	1.000E-04
i-Pentane	72	0.1	1.000E-04	1.000E-04 1.000E-04	1.000E-04
1-Pentene	70	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-1-butene	70	0.1	1.000E-04	1.000E-04	1.000E-04 1.000E-04
n-Pentane	70	0.1	1.000E-04	1.000E-04	1.000E-04
Isoprene	68	0.1	1.000E-04	1.000E-04	1.000E-04
trans-2-Pentene	70	0.1	1.000E-04	1.000E-04 1.000E-04	1.000E-04
cis-2-Pentene	70	0.1	1.000E-04	1.000E-04	1.000E-04 1.000E-04
2-Methyl-2-butene	70	0.1	1.000E-04	1.000E-04 1.000E-04	1.000E-04 1.000E-04
2,2-Dimethylbutane	86	0.1	1.000E-04	1.000E-04 1.000E-04	1.000E-04
Cyclopentene	68	0.1	1.000E-04	1.000E-04	1.000E-04
4-Methyl-1-pentene	84	0.1	1.000E-04	1.000E-04 1.000E-04	1.000E-04
Cyclopentane	70	0.1	1.000E-04	1.000E-04 1.000E-04	1.000E-04
2,3-Dimethylbutane	86	0.1	1.000E-04	1.000E-04 1.000E-04	1.000E-04 1.000E-04
cis-4-Methyl-2-pentene	84	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methylpentane	86	0.1	1.000E-04	1.000E-04	1.000E-04
3-Methylpentane	86			1.000E-04	
		0.1	1.000E-04		1.000E-04
2-Methyl-1-pentene 1-Hexene	84 84	0.1	1.000E-04	1.000E-04	1.000E-04
n-Hexane	86	0.1	1.000E-04	1.000E-04	1.000E-04
trans-2-Hexene	84	0.1	1.000E-04 1.000E-04	1.000E-04	1.000E-04
2-Methyl-2-pentene	84	0.1 0.1	1.000E-04	1.000E-04	1.000E-04
cis-2-Hexene	84			1.000E-04 1.000E-04	1.000E-04 1.000E-04
Methylcyclopentane	84	0.1 0.1	1.000E-04 1.000E-04	1.000E-04	
2,4-Dimethylpentane	100	0.1	1.000E-04		1.000E-04
Benzene	78	0.1		1.000E-04	1.000E-04
Cyclohexane	84		1.000E-04	1.000E-04	1.000E-04
2-Methylhexane		0.1	1.000E-04	1.000E-04	1.000E-04
Z-IVIEUTYITIEXATTE	100	0.1	1.000E-04	1.000E-04	1.000E-04

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	Detection Limit -	Detection	Average Maximum	Average Minimum
		li i	_	Detection Limit -
	1			
Molecular	_	ll	•	Concentration,
Weight	ppbv	11	<u> </u>	mg/m ³
100				1.000E-04
	0.1			1.000E-04
114	0.1			1.000E-04
100	0.1			1.000E-04
112	0.1	1.000E-04		1.000E-04
98	0.1	1.000E-04	1.000E-04	1.000E-04
112	0.1	1.000E-04	1.000E-04	1.000E-04
114	0.1	1.000E-04	1.000E-04	1.000E-04
114	0.1	1.000E-04	1.000E-04	1.000E-04
114	0.1	1.000E-04	1.000E-04	1.000E-04
92	0.1	1.000E-04	1.000E-04	1.000E-04
114	0.1	1.000E-04	1.000E-04	1.000E-04
111	0.1	1.000E-04	1.000E-04	1.000E-04
114	0.1	1.000E-04	1.000E-04	1.000E-04
128	0.1	1.000E-04	1.000E-04	1.000E-04
	0.1	1.000E-04	1.000E-04	1.000E-04
	0.1	1.000E-04	1.000E-04	1.000E-04
	0.1	1.000E-04	1.000E-04	1.000E-04
	0.1	1.000E-04	1.000E-04	1.000E-04
106	0.1	1.000E-04	1.000E-04	1.000E-04
104	0.1	1.000E-04	1.000E-04	1.000E-04
106	0.1	1.000E-04	1.000E-04	1.000E-04
128	0.1	1.000E-04	1.000E-04	1.000E-04
120	0.1	1.000E-04	1.000E-04	1.000E-04
120	0.1	1.000E-04	1.000E-04	1.000E-04
120	0.1	1.000E-04	1.000E-04	1.000E-04
120	0.1	1.000E-04	1.000E-04	1.000E-04
120	0.1	1.000E-04	1.000E-04	1.000E-04
120	0.1	1.000E-04	1.000E-04	1.000E-04
120	0.1	1.000E-04	1.000E-04	1.000E-04
142	0.1	1.000E-04	1.000E-04	1.000E-04
			1.000E-04	1.000E-04
				1.000E-04
				1.000E-04
				1.000E-04
		···		1.000E-04
	·		1	1.000E-04
<u> </u>				4.992E-04
				2.080E-04
				7.114E-04
	Weight 100 100 114 100 112 98 112 114 114 114 114 114 111 114 128 128 118 119 110 106 106 104 106 128 120 120 120 120 120 120	Molecular Weight ug/m³ or ppbv 100 0.1 100 0.1 114 0.1 100 0.1 112 0.1 98 0.1 114 0.1 114 0.1 114 0.1 114 0.1 114 0.1 114 0.1 114 0.1 115 0.1 114 0.1 115 0.1 115 0.1 116 0.1 117 0.1 118 0.1 119 0.1 119 0.1 110 0.1	Molecular Weight Detected, ug/m³ or ppbv mg/m³ Detected, ug/m³ or ppbv ug/m³ Detected, ug/m³ or ppbv ug/m³ Detected, ug/m³ or ppbv ug/m³ Detected, ug/m³ or ug/m³ Detected, ug/m³ or ug/m³ Detected, ug/m³ or ug/m³ Detected, ug/m³ or ug/m³ or	Molecular Weight

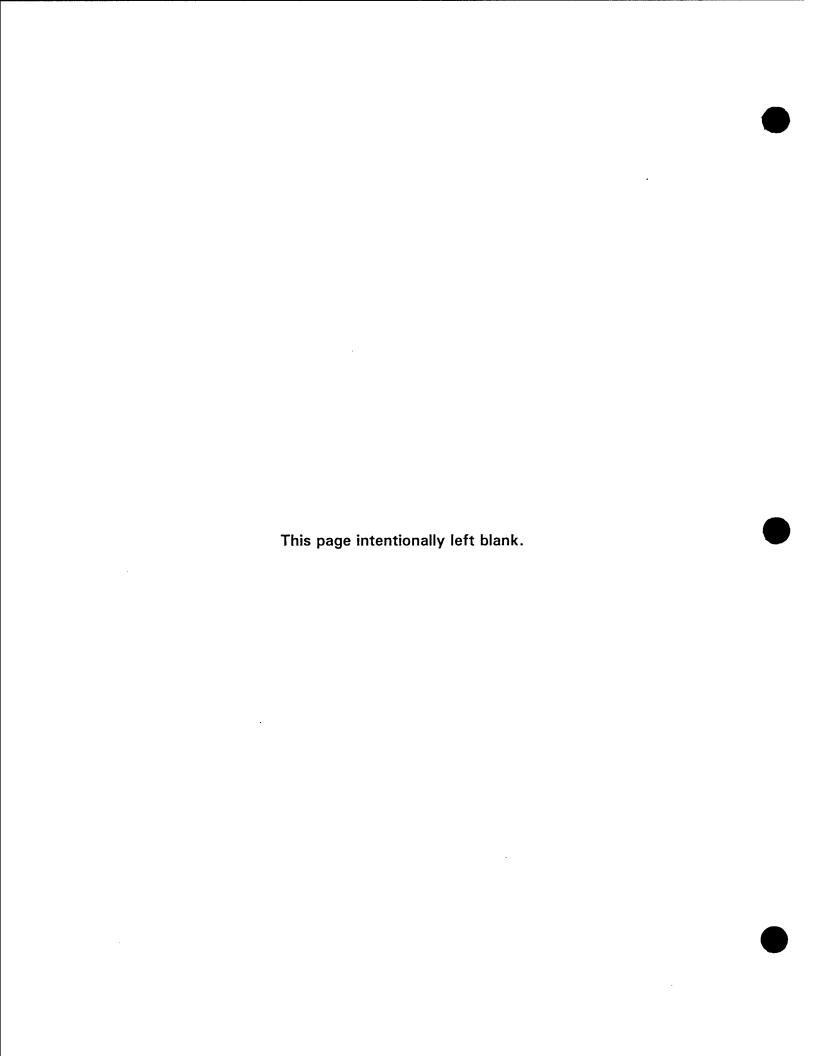
Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppbv	Detection Limit -Amount Detected, mg/m ³	Concentration, mg/m ³	Average Minimum Detection Limit - Concentration, mg/m ³
Chloroethene	63.0	0.1	2.621E-04	2.621E-04	2.621E-04
1,3-Butadiene	54.0	0.1	2.246E-04	2.246E-04	2.246E-04
Methylbromide	95.0	0.1	3.952E-04	3.952E-04	3.952E-04
Ethylchloride	64.5	0.1	2.683E-04	2.683E-04	2.683E-04
Trichloromonofluoromethane	137.0	0.1	5.699E-04	5.699E-04	5.699E-04
Vinylidenechloride	97.0	0.1	4.035E-04	4.035E-04	4.035E-04
Methylenechloride	85.0	0.1	3.536E-04	3.536E-04	3.536E-04
Allylchloride	76.5	0.1	3.182E-04	3.182E-04	3.182E-04
1,1,2-Trichloro-1,2,2-					
trifluoroethane	188.0	0.1	7.821E-04	7.821E-04	7.821E-04
1,1-Dichloroethane	99.0	0.1	4.118E-04	4.118E-04	4.118E-04
1,2-Dichloroethene	97.0	0.1	4.035E-04	4.035E-04	4.035E-04
Chloroform	119.0	0.1	4.950E-04	4.950E-04	4.950E-04
1,2-Dichloroethane	99.0	0.1	4.118E-04	4.118E-04	4.118E-04
Methylchloroform	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
Benzene	78.0	0.1	3.245E-04	3.245E-04	3.245E-04
Carbontetrachloride	154.0	0.1	6.406E-04	6.406E-04	6.406E-04
1,2-Dichloropropane	113.0	0.1	4.701E-04	4.701E-04	4.701E-04
Trichloroethylene	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
cis 1,3-Dichloro-1-propene	111.0	0.1	4.618E-04	4.618E-04	4.618E-04
trans 1,3-Dichloro-1-propene	111.0	0.1	4.618E-04	4.618E-04	4.618E-04
1,1,2-Trichloroethane	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
Toluene	92.0	0.1	3.827E-04	3.827E-04	3.827E-04
1,2-Dibromoethane	188.0	0.1	7.821E-04	7.821E-04	7.821E-04
Perchioroethylene	166.0	0.1	6.906E-04	6.906E-04	6.906E-04
Chlorobenzene	113.0	0.1	4.701E-04	4.701E-04	4.701E-04
Ethylbenzene	160.0	0.1	6.656E-04	6.656E-04	6.656E-04
m&p-Xylene	106.0	0.1	4.410E-04	4.410E-04	4.410E-04
Styrene	104.0	0.1	4.326E-04	4.326E-04	4.326E-04
1,1,2,2-Tetrachloroethane	168.0	0.1	6.989E-04	6.989E-04	6.989E-04
o-Xylene	106.0	0.1	4.410E-04	4.410E-04	4.410E-04
p-Ethyltoluene	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
1,3,5-Trimethylbenzene	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
1,2,4-Trimethylbenzene	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Benzylchloride	127.0	0.1	5.283E-04	5.283E-04	5.283E-04
m-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04	6.115E-04
p-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04	6.115E-04
o-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04	6.115E-04
1,2,4-Trichlorobenzene	181.0	0.1	7.530E-04	7.530E-04	7.530E-04
Hexachlorobutadiene	261.0	0.1	1.086E-03	1.086E-03	1.086E-03
Phenylacetylene	102.0	0.1	4.243E-04	4.243E-04	4.243E-04
Indane	118.0	0.1	4.909E-04	4.909E-04	4.909E-04

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppbv	Detection Limit -Amount Detected, mg/m ³ 5.491E-04	Average Maximum Detection Limit - Concentration, mg/m ³ 5.491E-04	Average Minimum Detection Limit - Concentration, mg/m ³ 5.491E-04
2,3-Dihydro-1-methyl-1H-indene	132.0	0.1			
2,3-Dihydro-4-methyl-1H-indene	132.0	0.1	5.491E-04	5.491E-04	5.491E-04
Naphthalene	128.0	0.1	5.325E-04	5.325E-04	5.325E-04
2-Methylnaphthalene	142.0	0.1	5.907E-04	5.907E-04	5.907E-04
1-Methylnaphthalene	142.0	0.1	5.907E-04	5.907E-04	5.907E-04
Cyanogen	52	0.1	2.163E-04	2.163E-04	2.163E-04
Methylnitrite	61.0	0.1	2.538E-04	2.538E-04	2.538E-04
Acetonitrile	41.0	0.1	1.706E-04	1.706E-04	1.706E-04
Acrylonitrile	53.0	0.1	2.205E-04	2.205E-04	2.205E-04
Nitromethane	61.0	0.1	2.538E-04	2.538E-04	2.538E-04
Propanenitrile	55.0	0.1	2.288E-04	2.288E-04	2.288E-04
2-Methylpropanenitrile	69.0	0.1	2.870E-04	2.870E-04	2.870E-04
Pentanenitrile	83.0	0.1	3.453E-04	3.453E-04	3.453E-04
Hexanenitrile	97.0	0.1	4.035E-04	4.035E-04	4.035E-04
Benzonitrile	103.0	0.1	4.285E-04	4.285E-04	4.285E-04
2-Nitrophenol	139.0	0.1	5.782E-04	5.782E-04	5.782E-04
Acrolein	56.0	0.1	2.330E-04	2.330E-04	2.330E-04
Acetone	56.0	0.1	2.330E-04	2.330E-04	2.330E-04
1-Hydroxy-2-propanone	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
Furan	68.0	0.1	2.829E-04	2.829E-04	2.829E-04
2-Propanol	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
2-Methylpropanal	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
1-Propanol	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
Methacrolein	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
Methyl-vinyl Ketone	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
MTBE	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
2,3-Butanedione	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
Butanal	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
2-Butanone	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
2-Methyl-1,3-dioxolane	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
2-Methylfuran	82.0	0.1	3.411E-04	3.411E-04	3.411E-04
Tetrahydrofuran	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
trans-2-Butenal	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
Acetic Acid	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
1-Butanol	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
2-Pentanone	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
Pentanal	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
1,4-Dioxane	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
Methyl Methacrylate	100.0	0.1	4.160E-04	4.160E-04	4.160E-04
Cyclopentanone	84.0	0.1	3.494E-04	3.494E-04	3.494E-04
Hexanal	100.0	0.1	4.160E-04	4.160E-04	4.160E-04
2-Furaldehyde	96.0	0.1	3.994E-04	3.994E-04	3.994E-04

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppby	Detection Limit -Amount Detected, mg/m³	Average Maximum Detection Limit - Concentration, mg/m ³	Average Minimum Detection Limit - Concentration, mg/m³
Cyclohexanone	98.0	0.1	4.077E-04	4.077E-04	4.077E-04
Heptanal	114.0	0.1	4.742E-04	4.742E-04	4.742E-04
2-Butoxyethanol	118.0	0.1	4.909E-04	4.909E-04	4.909E-04
Benzaldehyde	106.0	0.1	4.410E-04	4.410E-04	4.410E-04
6-Methyl-5-hepten-2-one	126.0	0.1	5.242E-04	5.242E-04	5.242E-04
Octanal	128.0	0.1	5.325E-04	5.325E-04	5.325E-04
Benzofuran	118.0	0.1	4.909E-04	4.909E-04	4.909E-04
2-Ethyl-1-hexanol	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Acetophonone	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Nonanal	142.0	0.1	5.907E-04	5.907E-04	5.907E-04
Decanal	156.0	0.1	6.490E-04	6.490E-04	6.490E-04
Carbonyl Sulfide	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
Carbon Disulfide	76.0	0.1	3.162E-04	3.162E-04	3.162E-04
Thiophene	84.0	0.1	3.494E-04	3.494E-04	3.494E-04
Dimethyldisulfide	94.0	0.1	3.910E-04	3.910E-04	3.910E-04

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Analyte	Run 1 Sample 1 - Amount Detected, ug/m³	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ug/m ³	Run 1 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 1, mg/m ³
TNMHC	669.50	6.695E-01	748.30	7.483E-01	7.089E-01
Ethane	5.80	5.800E-03	5.30	5.300E-03	5.550E-03
Ethylene	121.10	1.211E-01	127.50	1.275E-01	1.243E-01
Acetylene	108.70	1.087E-01	119.30	1.193E-01	1.140E-01
Propane	29.30	2.930E-02	5.60	5.600E-03	1.745E-02
Propene	4.60	4.600E-03	33.10	3.310E-02	1.885E-02
i-Butane	0.80	8.000E-04	0.70	7.000E-04	7.500E-04
i-Butene	9.20	9.200E-03	12.20	1.220E-02	1.070E-02
1-Butene	8.70	8.700E-03	8.80	8.800E-03	8.750E-03
1.3-Butadiene	ND	ND	ND	ND	ND
n-Butane	2.90	2.900E-03	4.30	4.300E-03	3.600E-03
trans-2-Butene	3.40	3.400E-03	4.00	4.000E-03	3.700E-03
2,2-Dimethylpropane	ND	ND	ND	ND	ND
cis-2-Butene	1.30	1.300E-03	1.80	1.800E-03	1.550E-03
3-Methyl-1-butene	0.40	4.000E-04	ND	ND	4.000E-04
i-Pentane	1.00	1.000E-03	1.00	1.000E-03	1.000E-03
1-Pentene	3.50	3.500E-03	ND	ND	3.500E-03
2-Methyl-1-butene	1.00	1.000E-03	1.80	1.800E-03	1.400E-03
n-Pentane	1.60	1.600E-03	1.80	1.800E-03	1.700E-03
Isoprene	ND	ND	ND	ND	ND
trans-2-Pentene	0.50	5.000E-04	0.60	6.000E-04	5.500E-04
cis-2-Pentene	0.40	4.000E-04	ND	ND	4.000E-04
2-Methyl-2-butene	ND	ND	ND	ND	ND
2,2-Dimethylbutane	ND	ND	ND	ND	ND
Cyclopentene	1.80	1.800E-03	ND	ND	1.800E-03
4-Methyl-1-pentene	ND	ND	ND	ND	ND
Cyclopentane	0.50	5.000E-04	ND	ND	5.000E-04
2,3-Dimethylbutane	0.30	3.000E-04	0.50	5.000E-04	4.000E-04
cis-4-Methyl-2-pentene	ND	ND	ND	ND	ND
2-Methylpentane	0.80	8.000E-04	1.80	1.800E-03	1.300E-03
3-Methylpentane	1.10	1.100E-03	1.30	1.300E-03	1.200E-03
2-Methyl-1-pentene	ND	ND	ND	ND	ND
1-Hexene	4.70	4.700E-03	5.20	5.200E-03	4.950E-03
n-Hexane	1.80	1.800E-03	2.10	2.100E-03	1.950E-03
trans-2-Hexene	ND	ND	ND	ND	ND
2-Methyl-2-pentene	ND	ND	ND	ND	ND
cis-2-Hexene	ND	ND	ND	ND	ND
Methylcyclopentane	0.60	6.000E-04	0.80	8.000E-04	7.000E-04
2,4-Dimethylpentane	1.00	1.000E-03	1.30	1.300E-03	1.150E-03
Benzene	45.60	4.560E-02	49.80	4.980E-02	4.770E-02

Analyte	Run 1 Sample 1 - Amount Detected, ug/m ³	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ug/m³	Run 1 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 1, mg/m ³
Cyclohexane	0.70	7.000E-04	ND	ND	7.000E-04
2-Methylhexane	0.50	5.000E-04	0.70	7.000E-04	6.000E-04
2,3-Dimethylpentane	1.90	1.900E-03	2.30	2.300E-03	2.100E-03
3-Methylhexane	1.10	1.100E-03	0.70	7.000E-04	9.000E-04
2,2,4-Trimethylpentane	5.20	5.200E-03	5.80	5.800E-03	5.500E-03
n-Heptane	1.00	1.000E-03	1.20	1.200E-03	1.100E-03
2,4,4-Trimethyl-1-pentene	ND	ND	ND	ND	ND
Methylcyclohexane	ND	ND	1.10	1.100E-03	1.100E-03
2,4,4-Trimethyl-2-pentene	ND	ND	ND	ND	ND
2,5-Dimethylhexane	0.50	5.000E-04	0.40	4.000E-04	4.500E-04
2,4-Dimethylhexane	0.70	7.000E-04	0.80	8.000E-04	7.500E-04
2,3,4-Trimethylpentane	1.00	1.000E-03	1.10	1.100E-03	1.050E-03
Toluene	12.00	1.200E-02	15.20	1.520E-02	1.360E-02
2,3-Dimethylhexane	0.20	2.000E-04	0.20	2.000E-04	2.000E-04
2-Methylheptane	0.20	2.000E-04	0.40	4.000E-04	3.000E-04
3-Ethylhexane	ND	ND	ND	ND	ND
2,2-Dimethylheptane	ND	ND	ND	ND	ND
2,2,4-Trimethylhexane	1.00	1.000E-03	1.00	1.000E-03	1.000E-03
n-Octane	0.60	6.000E-04	ND	ND	6.000E-04
Ethylcyclohexane	ND	ND	ND	ND	ND
Ethylbenzene	1.70	1.700E-03	2.50	2.500E-03	2.100E-03
m-Xylene & p-Xylene	3.50	3.500E-03	3.10	3.100E-03	3.300E-03
Styrene	ND	ND	ND ND	ND	ND
o-Xylene	1.40	1.400E-03	3.50	3.500E-03	2.450E-03
n-Nonane	0.50	5.000E-04	0.70	7.000E-04	6.000E-04
i-Propylbenzene	ND	ND	ND	ND	ND
n-Propylbenzene	0.50	5.000E-04	1.00	1.000E-03	7.500E-04
p-Ethyltoluene	3.40	3.400E-03	ND	ND	3.400E-03
m-Ethyltoluene	0.40	4.000E-04	1.20	1.200E-03	8.000E-04
1,3,5-Trimethylbenzene	0.50	5.000E-04	1.60	1.600E-03	1.050E-03
o-Ethyltoluene	0.40	4.000E-04	1.00	1.000E-03	7.000E-04
1,2,4-Trimethylbenzene & sec-	U.40	4.000L-0-	1.00	1.0002 00	7.0002 0.
Butylbenzene	1.60	1.600E-03	5.70	5.700E-03	3.650E-03
	0.40	4.000E-04	0.40	4.000E-04	4.000E-04
n-Decane			0.40 ND	4.000E-04 ND	4.000E-04 ND
alpha-Pinene	ND	ND ND			ND ND
beta-Pinene	ND	ND ND	ND ND	ND ND	ND ND
delta 3-Carene	ND	ND ND	ND	ND	
d-Limonene	ND ND	ND	ND 0.70	ND 7 000F 04	ND 7,000F.04
MTBE	0.70	7.000E-04	0.70	7.000E-04	7.000E-04
ETBE	ND	ND	ND	ND	ND

TABLE E-2. AEC - RUN NO. 1 IR TEST (1 APRIL 1998)

m Section de la constitución de	Run 1 Sample 1 - Amount Detected, ppbv	Run 1 Sample 1 - Amount Detected, mg/m³	Run 1 Sample 2 - Amount Detected, ppbv	Run 1 Sample 2 - Amount Detected, mg/m³	Average Concentration - Run 1, ppbv
Dichlorodifluoromethane	0.155	-	0.478	_	3.163E-01
Methylchloride	ND	<u>-</u>	ND	-	ND
Dichlorotetrafluoroethane	ND	-	ND	-	ND
Chloroethene	ND	-	ND	-	ND
1,3-Butadiene	ND	-,	ND	-	ND
Methylbromide	ND	-	ND	-	ND
Ethylchloride	ND	-	ND	-	ND
Trichloromonofluoromethane	0.426	-	0.461	-	4.433E-01
Vinylidenechloride	ND	-	ND	-	ND
Methylenechloride	199.604	-	200.881	-	2.002E+02
Allylchloride	ND	-	ND	-	ND
1,1,2-Trichloro-1,2,2- trifluoroethane	0.104		0.115	-	1.096E-01
1,1-Dichloroethane	ND	-	ND	-	ND
1,2-Dichloroethene	ND	-	ND	-	ND
Chloroform	ND	-	ND	-	ND
1,2-Dichloroethane	ND	-	ND	-	ND
Methylchloroform	0.066	-	0.066	-	6.606E-02
Benzene	14.294	-	15.610	-	1.495E+01
Carbontetrachloride	0.127	-	0.138	-	1.323E-01
1,2-Dichloropropane	ND	-	ND	-	ND
Trichloroethylene	ND	-	ND	-	ND
cis 1,3-Dichloro-1-propene	ND	-	ND	-	ND
trans 1,3-Dichloro-1-propene	ND	-	ND	-	ND
1,1,2-Trichloroethane	ND	-	ND	•	ND
Toluene	3.189	-	4.040	-	3.614E+00
1,2-Dibromoethane	ND	-	ND	-	ND
Perchloroethylene	ND	-	ND	<u>-</u>	ND
Chlorobenzene	ND	-	ND	-	ND
Ethylbenzene	0.392	•	0.577	-	4.844E-01
m&p-Xylene	0.800	-	0.650	•	7.250E-01
Styrene	ND	•	ND	•	ND
1,1,2,2-Tetrachloroethane	ND	-	ND	-	ND
o-Xylene	0.323	-	0.807	-	5.651E-01
p-Ethyltoluene	0.096	-	0.100	-	9.791E-02
1,3,5-Trimethylbenzene	0.055	_	0.055	<u>-</u>	5.529E-02
1,2,4-Trimethylbenzene	0.188	-	0.177	-	1.828E-01
Benzylchloride	ND	-	ND	-	ND
m-Dichlorobenzene	ND	-	ND	-	ND
p-Dichlorobenzene	ND	-	ND	•	ND

Analyte	Run 1 Sample 1 - Amount Detected, ppbv	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ppbv	Run 1 Sample 2 - Amount Detected, mg/m ³	Average Concentration - Run 1, ppbv
o-Dichlorobenzene	ND	-	ND	-	ND
1,2,4-Trichlorobenzene	ND	-	ND	-	ND
Hexachlorobutadiene	ND	-	ND	-	ND
Phenylacetylene	0.524	-	0.560	-	5.419E-01
Indane	ND	-	ND	-	ND
2,3-Dihydro-1-methyl-1H-indene	ND	-	ND	-	ND
2,3-Dihydro-4-methyl-1H-indene	ND	-	ND	-	ND
Naphthalene	1.787	-	1.858	-	1.823E+00
2-Methylnaphthalene	ND	-	ND	-	ND
1-Methylnaphthalene	ND	-	ND	-	ND
Cyanogen	ND	-	ND	-	ND
Methylnitrite	1.898	-	1.991	-	1.944E+00
Acetonitrile	6.587	-	6.751	-	6.669E+00
Acrylonitrile	4.117	-	4.336	-	4.227E+00
Nitromethane	1.963	-	2.049	-	2.006E+00
Propanenitrile	0.938	-	0.936	-	9.366E-01
2-Methylpropanenitrile	ND	-	ND	-	ND
Pentanenitrile	0.673	-	0.699	-	6.861E-01
Hexanenitrile	0.739	-	0.648	-	6.934E-01
Benzonitrile	1.563	-	1.618	-	1.590E+00
2-Nitrophenol	0.138	-	0.170	-	1.539E-01
Acrolein	5.593	-	5.419	-	5.506E+00
Acetone	27.455	-	27.747	-	2.760E+01
1-Hydroxy-2-propanone	ND	-	ND	-	ND
Furan	0.801	-	0.665	-	7.330E-01
2-Propanol	ND	-	ND	-	ND
2-Methylpropanal	0.778	-	0.656		7.169E-01
1-Propanol	ND	-	ND	-	ND
Methacrolein	0.818	-	0.720	-	7.686E-01
Methyl-vinyl Ketone	0.487	-	0.492	-	4.897E-01
MTBE	0.178	-	0.175	-	1.767E-01
2,3-Butanedione	ND	-	ND 2.488	-	ND
Butanal	0.532	-	0.489	-	5.107E-01
2-Butanone	2.868	-	2.307	-	2.587E+00
2-Methyl-1,3-dioxolane	ND ND	-	ND ND	-	ND ND
2-Methylfuran	ND ND	-	ND	-	ND
Tetrahydrofuran	0.105	-	0.058	-	8.147E-02
trans-2-Butenal	0.502	-	0.511	-	5.063E-01
Acetic Acid	1.345	-	2.854	-	2.099E+00
1-Butanol	ND	-	ND	-	ND

TABLE E-2. AEC - RUN NO. 1 IR TEST (1 APRIL 1998)

Analyte	Run 1 Sample 1 - Amount Detected, ppbv	Run 1 Sample 1 - Amount Detected, mg/m ³	Run 1 Sample 2 - Amount Detected, ppbv	Run 1 Sample 2 - Amount Detected, mg/m³	Average Concentration - Run 1, ppbv
2-Pentanone	0.434	-	0.448	-	4.409E-01
Pentanal	1.127	-	1.630	-	1.379E+00
1,4-Dioxane	ND	•	ND	-	ND
Methyl Methacrylate	ND	-	ND	-	ND
Cyclopentanone	21.445	-	21.215	-	2.133E+01
Hexanal	0.324	-	0.449	-	3.863E-01
2-Furaldehyde	3.641	-	3.110	-	3.375E+00
Cyclohexanone	ND	-	ND	-	ND
Heptanal	ND	-	0.330	-	3.304E-01
2-Butoxyethanol	ND	-	ND	-	ND
Benzaldehyde	1.932	-	2.054	_	1.993E+00
6-Methyl-5-hepten-2-one	ND	_	ND	-	ND
Octanal	0.364	-	0.383	-	3.738E-01
Benzofuran	ND	-	ND	-	ND
2-Ethyl-1-hexanol	ND	-	ND	-	ND
Acetophonone	0.375	_	0.345	-	3.600E-01
Nonanal	0.380	-	0.543	-	4.618E-01
Decanal	0.446	-	0.530	-	4.882E-01
Carbonyl Sulfide	0.560	-	0.800	-	6.798E-01
Carbon Disulfide	8.995		9.740	-	9.368E+00
Thiophene	0.367	-	0.388	-	3.779E-01
Dimethyldisulfide	ND	-	ND	-	ND

TABLE E-3. AEC - BACKGROUND RUN NO. 1 IR TEST (1 APRIL 1998)

		Run 1 Background Sample - Amount Detected,	Run 1 Background Sample - Amount	Average Background Concentration -
Analyte	Molecular Weight	ug/m³ or ppbv	Detected, mg/m³	Run 1, mg/m ³
TNMHC	-	36.20	3.620E-02	3.620E-02
Ethane	30	2.50	2.500E-03	2.500E-03
Ethylene	28	0.20	2.000E-04	2.000E-04
Acetylene	26	0.70	7.000E-04	7.000E-04
Propane	44	0.80	8.000E-04	8.000E-04
Propene	42	ND	ND	ND
i-Butane	58	0.10	1.000E-04	1.000E-04
i-Butene	56	ND	ND	ND
1-Butene	56	ND	ND	ND
1,3-Butadiene	54	ND	ND	ND
n-Butane	58	0.40	4.000E-04	4.000E-04
trans-2-Butene	56	ND	ND	ND
2,2-Dimethylpropane	72	ND	ND	ND
cis-2-Butene	56	ND	ND	ND
3-Methyl-1-butene	70	ND	ND	ND
i-Pentane	72	0.50	5.000E-04	5.000E-04
1-Pentene	70	ND	ND	ND
2-Methyl-1-butene	70	ND	ND	ND
n-Pentane	72	0.60	6.000E-04	6.000E-04
Isoprene	68	0.20	2.000E-04	2.000E-04
trans-2-Pentene	70	ND	ND	ND
cis-2-Pentene	70	ND	ND	ND
2-Methyl-2-butene	70	ND	ND	ND
2,2-Dimethylbutane	86	0.10	1.000E-04	1.000E-04
Cyclopentene	68	ND	ND	ND
4-Methyl-1-pentene	84	ND	ND	ND
Cyclopentane	70	0.10	1.000E-04	1.000E-04
2,3-Dimethylbutane	86	0.40	4.000E-04	4.000E-04
cis-4-Methyl-2-pentene	84	ND	ND	ND
2-Methylpentane	86	0.80	8.000E-04	8.000E-04
3-Methylpentane	86	0.70	7.000E-04	7.000E-04
2-Methyl-1-pentene	84	ND	ND	ND
1-Hexene	84	ND	ND	ND
n-Hexane	86	0.80	8.000E-04	8.000E-04
trans-2-Hexene	84	ND	ND	ND
2-Methyl-2-pentene	84	ND	ND	ND
cis-2-Hexene	84	ND	ND	ND
Methylcyclopentane	84	0.40	4.000E-04	4.000E-04
2,4-Dimethylpentane	100	0.90	9.000E-04	9.000E-04

The second problem of	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m³	Average Background Concentration - Run 1, mg/m ³
Benzene	78	1.10	1.100E-03	1.100E-03
Cyclohexane	84	0.20	2.000E-04	2.000E-04
2-Methylhexane	100	0.40	4.000E-04	4.000E-04
2,3-Dimethylpentane	100	1.90	1.900E-03	1.900E-03
3-Methylhexane	100	0.40	4.000E-04	4.000E-04
2,2,4-Trimethylpentane	114	3.70	3.700E-03	3.700E-03
n-Heptane	100	0.30	3.000E-04	3.000E-04
2,4,4-Trimethyl-1-pentene	112	ND	ND	ND
Methylcyclohexane	98	0.20	2.000E-04	2.000E-04
2,4,4-Trimethyl-2-pentene	112	ND	ND	ND
2,5-Dimethylhexane	114	0.30	3.000E-04	3.000E-04
2,4-Dimethylhexane	114	0.40	4.000E-04	4.000E-04
2,3,4-Trimethylpentane	114	0.90	9.000E-04	9.000E-04
Toluene	92	3.00	3.000E-03	3.000E-03
2,3-Dimethylhexane	114	0.40	4.000E-04	4.000E-04
2-Methylheptane	111	0.10	1.000E-04	1.000E-04
3-Ethylhexane	114	ND	ND	ND
2,2-Dimethylheptane	128	ND	ND	ND
2,2,4-Trimethylhexane	128	0.20	2.000E-04	2.000E-04
n-Octane	114	0.10	1.000E-04	1.000E-04
Ethylcyclohexane	112	ND	ND	ND
Ethylbenzene	160	0.30	3.000E-04	3.000E-04
m-Xylene & p-Xylene	106	1.40	1.400E-03	1.400E-03
Styrene	104	ND	ND	ND
o-Xylene	106	0.50	5.000E-04	5.000E-04
n-Nonane	128	ND	ND	ND
i-Propylbenzene	120	ND	ND	ND
n-Propylbenzene	120	0.20	2.000E-04	2.000E-04
p-Ethyltoluene	120	0.30	3.000E-04	3.000E-04
m-Ethyltoluene	120	0.20	2.000E-04	2.000E-04
1,3,5-Trimethylbenzene	120	0.20	2.000E-04	2.000E-04
o-Ethyltoluene	120	0.10	1.000E-04	1.000E-04
1,2,4-Trimethylbenzene & sec-	100			
Butylbenzene	120	0.40	4.000E-04	4.000E-04
n-Decane	142	ND	ND	ND ND
alpha-Pinene	136	ND	ND	ND ND
beta-Pinene	136	ND	ND	ND
delta 3-Carene	136	ND	ND	ND
d-Limonene	136	ND	ND	ND

TABLE E-3. AEC - BACKGROUND RUN NO. 1 IR TEST (1 APRIL 1998)

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv 0.70	Run 1 Background Sample - Amount Detected, mg/m³ 7.000E-04	Average Background Concentration - Run 1, mg/m ³ 7.000E-04
MTBE ETBE	102.0	0.70 ND	7.000E-04 ND	7.000E-04 ND
Dichlorodifluoromethane	120.0	0.30	1.507E-03	1.507E-03
		ND	1.507E-03 ND	ND
Methylchloride Dichlorotetrafluoroethane	50.0 171.0	ND ND	ND ND	ND ND
Chloroethene	63.0	ND ND	ND ND	ND ND
1,3-Butadiene	54.0	ND ND	ND ND	ND ND
Methylbromide	95.0	ND ND	ND	ND ND
Ethylchloride	64.5	ND ND	ND	ND
Trichloromonofluoromethane	137.0	0.44	2.515E-03	2.515E-03
Vinylidenechloride	97.0	ND	ND	ND
Methylenechloride	85.0	0.58	2.044E-03	2.044E-03
Allylchloride	76.5	ND	ND	ND
1,1,2-Trichloro-1,2,2-				
trifluoroethane	188.0	0.11	8.583E-04	8.583E-04
1,1-Dichloroethane	99.0	ND	ND	ND
1,2-Dichloroethene	97.0	ND	ND	ND
Chloroform	119.0	ND	ND	ND
1,2-Dichloroethane	99.0	ND	ND	ND
Methylchloroform	133.0	0.07	3.777E-04	3.777E-04
Benzene	78.0	0.34	1.119E-03	1.119E-03
Carbontetrachloride	154.0	0.12	7.746E-04	7.746E-04
1,2-Dichloropropane	113.0	ND	ND	ND ND
Trichloroethylene	133.0	ND	ND	ND
cis 1,3-Dichloro-1-propene	111.0	ND ND	ND ND	ND ND
trans 1,3-Dichloro-1-propene 1,1,2-Trichloroethane	111.0 133.0	ND	ND ND	ND ND
Toluene	92.0	0.80	3.051E-03	3.051E-03
1,2-Dibromoethane	188.0	ND	ND	ND
Perchloroethylene	166.0	ND	ND ND	ND ND
Chlorobenzene	113.0	ND	ND	ND ND
Ethylbenzene	160.0	0.07	4.606E-04	4.606E-04
m&p-Xylene	106.0	0.30	1.321E-03	1.321E-03
Styrene	104.0	ND	ND	ND
1,1,2,2-Tetrachloroethane	168.0	ND	ND	ND
o-Xylene	106.0	0.12	5.086E-04	5.086E-04
p-Ethyltoluene	120.0	ND	ND	ND
1,3,5-Trimethylbenzene	120.0	ND	ND	ND
1,2,4-Trimethylbenzene	120.0	0.09	4.522E-04	4.522E-04

TABLE E-3. AEC - BACKGROUND RUN NO. 1 IR TEST (1 APRIL 1998)

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m³	Average Background Concentration - Run 1, mg/m ³
Benzylchloride	127.0	ND	ND	ND
m-Dichlorobenzene	147.0	ND	ND	ND
p-Dichlorobenzene	147.0	ND	ND	ND
o-Dichlorobenzene	147.0	ND	ND	ND
1,2,4-Trichlorobenzene	181.0	ND	ND	ND
Hexachlorobutadiene	261.0	ND	ND	ND
Phenylacetylene	102.0	ND	ND	ND
Indane	118.0	ND	ND	ND
2,3-Dihydro-1-methyl-1H-indene	132.0	ND	ND	ND
2,3-Dihydro-4-methyl-1H-indene	132.0	ND	ND	ND
Naphthalene	128.0	0.06	3.067E-04	3.067E-04
2-Methylnaphthalene	142.0	ND	ND	ND
1-Methylnaphthalene	142.0	ND	ND	ND
Cyanogen	52	ND	ND	ND
Methylnitrite	61.0	ND	ND	ND
Acetonitrile	41.0	ND	ND	ND
Acrylonitrile	53.0	ND	ND	ND
Nitromethane	61.0	ND	ND	ND
Propanenitrile	55.0	ND	ND	ND
2-Methylpropanenitrile	69.0	ND	ND	ND
Pentanenitrile	83.0	ND	ND	ND
Hexanenitrile	97.0	ND	ND	ND
Benzonitrile	103.0	ND	ND	ND
2-Nitrophenol	139.0	ND	ND	ND
Acrolein	56.0	ND	ND	ND
Acetone	56.0	3.11	7.235E-03	7.235E-03
1-Hydroxy-2-propanone	74.0	ND	ND	ND
Furan	68.0	ND	ND	ND
2-Propanol	60.0	ND	ND	ND
2-Methylpropanal	74.0	ND	ND	ND
1-Propanol	60.0	ND	ND	ND
Methacrolein	70.0	ND	ND	ND
Methyl-vinyl Ketone	70.0	ND	ND	ND
MTBE	88.0	0.15	5.544E-04	5.544E-04
2,3-Butanedione	86.0	ND	ND	ND
Butanal	72.0	ND	ND	ND
2-Butanone	72.0	0.27	7.941E-04	7.941E-04
2-Methyl-1,3-dioxolane	88.0	ND	ND	ND
2-Methylfuran	82.0	ND	ND	ND

TABLE E-3. AEC - BACKGROUND RUN NO. 1 IR TEST (1 APRIL 1998)

Analyte	Molecular Weight	Run 1 Background Sample - Amount Detected, ug/m³ or ppbv	Run 1 Background Sample - Amount Detected, mg/m³	Average Background Concentration - Run 1, mg/m ³
Tetrahydrofuran trans-2-Butenal	72.0 70.0	ND ND	ND	ND ND
Acetic Acid	60.0	0.44	1.105E-03	1.105E-03
1-Butanol	74.0	ND	ND	ND
2-Pentanone	86.0	ND ND	ND ND	ND ND
Pentanal	86.0	0.45	1.610E-03	1.610E-03
1,4-Dioxane	88.0	ND	ND	ND
Methyl Methacrylate	100.0	ND ND	ND ND	ND ND
Cyclopentanone	84.0	ND ND	ND ND	ND ND
Hexanal	100.0	0.29	1.206E-03	1.206E-03
2-Furaldehyde	96.0	ND	ND	ND
Cyclohexanone	98.0	ND	ND	ND
Heptanal	114.0	0.21	9.731E-04	9.731E-04
2-Butoxyethanol	118.0	ND	ND	ND
Benzaldehyde	106.0	0.15	6.469E-04	6.469E-04
6-Methyl-5-hepten-2-one	126.0	0.09	4.461E-04	4.461E-04
Octanal	128.0	0.27	1.464E-03	1.464E-03
Benzofuran	118.0	ND	ND	ND
2-Ethyl-1-hexanol	120.0	ND	ND	ND
Acetophonone	120.0	ND	ND	ND
Nonanal	142.0	0.34	2.037E-03	2.037E-03
Decanal	156.0	0.33	2.172E-03	2.172E-03
Carbonyl Sulfide	60.0	0.06	1.588E-04	1.588E-04
Carbon Disulfide	76.0	0.45	1.418E-03	1.418E-03
Thiophene	84.0	ND	ND	ND
Dimethyldisulfide	94.0	ND	ND	ND

The Land Court of the Court of	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppbv	Detection Limit -Amount Detected, mg/m ³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
TNMHC	-	0.1	1.000E-04	1.000E-04	1.000E-04
Ethane	30	0.1	1.000E-04	1.000E-04	1.000E-04
Ethylene	28	0.1	1.000E-04	1.000E-04	1.000E-04
Acetylene	26	0.1	1.000E-04	1.000E-04	1.000E-04
Propane	44	0.1	1.000E-04	1.000E-04	1.000E-04
Propene	42	0.1	1.000E-04	1.000E-04	1.000E-04
i-Butane	58	0.1	1.000E-04	1.000E-04	1.000E-04
i-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
1-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
1,3-Butadiene	54	0.1	1.000E-04	1.000E-04	1.000E-04
n-Butane	58	0.1	1.000E-04	1.000E-04	1.000E-04
trans-2-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
2,2-Dimethylpropane	72	0.1	1.000E-04	1.000E-04	1.000E-04
cis-2-Butene	56	0.1	1.000E-04	1.000E-04	1.000E-04
3-Methyl-1-butene	70	0.1	1.000E-04	1.000E-04	1.000E-04
i-Pentane	72	0.1	1.000E-04	1.000E-04	1.000E-04
1-Pentene	70	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-1-butene	70	0.1	1.000E-04	1.000E-04	1.000E-04
n-Pentane	72	0.1	1.000E-04	1.000E-04	1.000E-04
Isoprene	68	0.1	1.000E-04	1.000E-04	1.000E-04
trans-2-Pentene	70	0.1	1.000E-04	1.000E-04	1.000E-04
cis-2-Pentene	70	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-2-butene	70	0.1	1.000E-04	1.000E-04	1.000E-04
2,2-Dimethylbutane	86	0.1	1.000E-04	1.000E-04	1.000E-04
Cyclopentene	68	0.1	1.000E-04	1.000E-04	1.000E-04
4-Methyl-1-pentene	84	0.1	1.000E-04	1.000E-04	1.000E-04
Cyclopentane	70	0.1	1.000E-04	1.000E-04	1.000E-04
2,3-Dimethylbutane	86	0.1	1.000E-04	1.000E-04	1.000E-04
cis-4-Methyl-2-pentene	84	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methylpentane	86	0.1	1.000E-04	1.000E-04	1.000E-04
3-Methylpentane	86	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-1-pentene	84	0.1	1.000E-04	1.000E-04	1.000E-04
1-Hexene	84	0.1	1.000E-04	1.000E-04	1.000E-04
n-Hexane	86	0.1	1.000E-04	1.000E-04	1.000E-04
trans-2-Hexene	84	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methyl-2-pentene	84	0.1	1.000E-04	1.000E-04	1.000E-04
cis-2-Hexene	84	0.1	1.000E-04	1.000E-04	1.000E-04
Methylcyclopentane	84	0.1	1.000E-04	1.000E-04	1.000E-04
2,4-Dimethylpentane	100	0.1	1.000E-04	1.000E-04	1.000E-04
Benzene	78	0.1	1.000E-04	1.000E-04	1.000E-04
Cyclohexane	84	0.1	1.000E-04	1.000E-04	1.000E-04
2-Methylhexane	100	0.1	1.000E-04	1.000E-04	1.000E-04
July in local to	100	<u> </u>	1.0002-04	1.0002-04	1.000L-07

TABLE E-4. AEC - RUN NO. 1 IR TEST (1 APRIL 1998)

		Detection Limit -	: .			
		Amount Detected,	Detection Limit -Amount		Average Minimum Detection Limit -	
	Molecular	ug/m³ or	Detected,	Concentration,	Concentration,	
Analyte	Weight	ppbv	mg/m³	mg/m³	mg/m³	
2,3-Dimethylpentane	100	0.1	1.000E-04	1.000E-04	1.000E-04	
3-Methylhexane	100	0.1	1.000E-04	1.000E-04	1.000E-04	
2,2,4-Trimethylpentane	114	0.1	1.000E-04	1.000E-04	1.000E-04	
n-Heptane	100	0.1	1.000E-04	1.000E-04	1.000E-04	
2,4,4-Trimethyl-1-pentene	112	0.1	1.000E-04	1.000E-04	1.000E-04	
Methylcyclohexane	98	0.1	1.000E-04	1.000E-04	1.000E-04	
2,4,4-Trimethyl-2-pentene	112	0.1	1.000E-04	1.000E-04	1.000E-04	
2,5-Dimethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04	
2,4-Dimethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04	
2,3,4-Trimethylpentane	114	0.1	1.000E-04	1.000E-04	1.000E-04	
Toluene	92	0.1	1.000E-04	1.000E-04	1.000E-04	
2,3-Dimethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04	
2-Methylheptane	111	0.1	1.000E-04	1.000E-04	1.000E-04	
3-Ethylhexane	114	0.1	1.000E-04	1.000E-04	1.000E-04	
2,2-Dimethylheptane	128	0.1	1.000E-04	1.000E-04	1.000E-04	
2,2,4-Trimethylhexane	128	0.1	1.000E-04	1.000E-04	1.000E-04	
n-Octane	114	0.1	1.000E-04	1.000E-04	1.000E-04	
Ethylcyclohexane	112	0.1	1.000E-04	1.000E-04	1.000E-04	
Ethylbenzene	160	0.1	1.000E-04	1.000E-04	1.000E-04	
m-Xylene & p-Xylene	106	0.1	1.000E-04	1.000E-04	1.000E-04	
Styrene	104	0.1	1.000E-04	1.000E-04	1.000E-04	
o-Xylene	106	0.1	1.000E-04	1.000E-04	1.000E-04	
n-Nonane	128	0.1	1.000E-04	1.000E-04	1.000E-04	
i-Propylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04	
n-Propylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04	
p-Ethyltoluene	120	0.1	1.000E-04	1.000E-04	1.000E-04	
m-Ethyltoluene	120	0.1	1.000E-04	1.000E-04	1.000E-04	
1,3,5-Trimethylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04	
o-Ethyltoluene	120	0.1	1.000E-04	1.000E-04	1.000E-04	
1,2,4-Trimethylbenzene & sec-						
Butylbenzene	120	0.1	1.000E-04	1.000E-04	1.000E-04	
n-Decane	142	0.1	1.000E-04	1.000E-04	1.000E-04	
alpha-Pinene	136	0.1	1.000E-04	1.000E-04	1.000E-04	
beta-Pinene	136	0.1	1.000E-04	1.000E-04	1.000E-04	
delta 3-Carene	136	0.1	1.000E-04	1.000E-04	1.000E-04	
d-Limonene	136	0.1	1.000E-04	1.000E-04	1.000E-04	
MTBE	88	0.1	1.000E-04	1.000E-04	1.000E-04	
ETBE	102.0	0.1	1.000E-04	1.000E-04	1.000E-04	
Dichlorodifluoromethane	120.0	0.1	4.992E-04	4.992E-04	4.992E-04	
Methylchloride	50.0	0.1	2.080E-04	2.080E-04	2.080E-04	
Dichlorotetrafluoroethane	171.0	0.1	7.114E-04	7.114E-04	7.114E-04	

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppbv	Detection Limit -Amount Detected, mg/m ³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m ³
Chloroethene	63.0	0.1	2.621E-04	2.621E-04	2.621E-04
1,3-Butadiene	54.0	0.1	2.246E-04	2.246E-04	2.246E-04
Methylbromide	95.0	0.1	3.952E-04	3.952E-04	3.952E-04
Ethylchloride	64.5	0.1	2.683E-04	2.683E-04	2.683E-04
Trichloromonofluoromethane	137.0	0.1	5.699E-04	5.699E-04	5.699E-04
Vinylidenechloride	97.0	0.1	4.035E-04	4.035E-04	4.035E-04
Methylenechloride	85.0	0.1	3.536E-04	3.536E-04	3.536E-04
Allylchloride	76.5	0.1	3.182E-04	3.182E-04	3.182E-04
1,1,2-Trichloro-1,2,2-					
trifluoroethane	188.0	0.1	7.821E-04	7.821E-04	7.821E-04
1,1-Dichloroethane	99.0	0.1	4.118E-04	4.118E-04	4.118E-04
1,2-Dichloroethene	97.0	0.1	4.035E-04	4.035E-04	4.035E-04
Chloroform	119.0	0.1	4.950E-04	4.950E-04	4.950E-04
1,2-Dichloroethane	99.0	0.1	4.118E-04	4.118E-04	4.118E-04
Methylchloroform	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
Benzene	78.0	0.1	3.245E-04	3.245E-04	3.245E-04
Carbontetrachloride	154.0	0.1	6.406E-04	6.406E-04	6.406E-04
1,2-Dichloropropane	113.0	0.1	4.701E-04	4.701E-04	4.701E-04
Trichloroethylene	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
cis 1,3-Dichloro-1-propene	111.0	. 0.1	4.618E-04	4.618E-04	4.618E-04
trans 1,3-Dichloro-1-propene	111.0	0.1	4.618E-04	4.618E-04	4.618E-04
1,1,2-Trichloroethane	133.0	0.1	5.533E-04	5.533E-04	5.533E-04
Toluene	92.0	0.1	3.827E-04	3.827E-04	3.827E-04
1,2-Dibromoethane	188.0	0.1	7.821E-04	7.821E-04	7.821E-04
Perchloroethylene	166.0	0.1	6.906E-04	6.906E-04	6.906E-04
Chlorobenzene	113.0	0.1	4.701E-04	4.701E-04	4.701E-04
Ethylbenzene	160.0	0.1	6.656E-04	6.656E-04	6.656E-04
m&p-Xylene	106.0	0.1	4.410E-04	4.410E-04	4.410E-04
Styrene	104.0	0.1	4.326E-04	4.326E-04	4.326E-04
1,1,2,2-Tetrachloroethane	168.0	0.1	6.989E-04	6.989E-04	6.989E-04
o-Xylene	106.0	0.1	4.410E-04	4.410E-04	4.410E-04
p-Ethyltoluene	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
1,3,5-Trimethylbenzene	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
1,2,4-Trimethylbenzene	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Benzylchloride	127.0	0.1	5.283E-04	5.283E-04	5.283E-04
m-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04	6.115E-04
p-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04	6.115E-04
o-Dichlorobenzene	147.0	0.1	6.115E-04	6.115E-04	6.115E-04
1,2,4-Trichlorobenzene	181.0	0.1	7.530E-04	7.530E-04	7.530E-04
Hexachlorobutadiene	261.0	0.1	1.086E-03	1.086E-03	1.086E-03
Phenylacetylene	102.0	0.1	4.243E-04	4.243E-04	4.243E-04
Indane	118.0	0.1	4.909E-04	4.909E-04	4.909E-04

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m ³ or ppbv	Detection Limit -Amount Detected, mg/m ³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m ³
2,3-Dihydro-1-methyl-1H-indene	132.0	0.1	5.491E-04	5.491E-04	5.491E-04
2,3-Dihydro-4-methyl-1H-indene	132.0	0.1	5.491E-04	5.491E-04	5.491E-04
Naphthalene	128.0	0.1	5.325E-04	5.325E-04	5.325E-04
2-Methylnaphthalene	142.0	0.1	5.907E-04	5.907E-04	5.907E-04
1-Methylnaphthalene	142.0	0.1	5.907E-04	5.907E-04	5.907E-04
Cyanogen	52	0.1	2.163E-04	2.163E-04	2.163E-04
Methylnitrite	61.0	0.1	2.538E-04	2.538E-04	2.538E-04
Acetonitrile	41.0	0.1	1.706E-04	1.706E-04	1.706E-04
Acrylonitrile	53.0	0.1	2.205E-04	2.205E-04	2.205E-04
Nitromethane	61.0	0.1	2.538E-04	2.538E-04	2.538E-04
Propanenitrile	55.0	0.1	2.288E-04	2.288E-04	2.288E-04
2-Methylpropanenitrile	69.0	0.1	2.870E-04	2.870E-04	2.870E-04
Pentanenitrile	83.0	0.1	3.453E-04	3.453E-04	3.453E-04
Hexanenitrile	97.0	0.1	4.035E-04	4.035E-04	4.035E-04
Benzonitrile	103.0	0.1	4.285E-04	4.285E-04	4.285E-04
2-Nitrophenol	139.0	0.1	5.782E-04	5.782E-04	5.782E-04
Acrolein	56.0	0.1	2.330E-04	2.330E-04	2.330E-04
Acetone	56.0	0.1	2.330E-04	2.330E-04	2.330E-04
1-Hydroxy-2-propanone	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
Furan	68.0	0.1	2.829E-04	2.829E-04	2.829E-04
2-Propanol	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
2-Methylpropanal	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
1-Propanol	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
Methacrolein	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
Methyl-vinyl Ketone	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
MTBE	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
2,3-Butanedione	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
Butanal	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
2-Butanone	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
2-Methyl-1,3-dioxolane	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
2-Methylfuran	82.0	0.1	3.411E-04	3.411E-04	3.411E-04
Tetrahydrofuran	72.0	0.1	2.995E-04	2.995E-04	2.995E-04
trans-2-Butenal	70.0	0.1	2.912E-04	2.912E-04	2.912E-04
Acetic Acid	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
1-Butanol	74.0	0.1	3.078E-04	3.078E-04	3.078E-04
2-Pentanone	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
Pentanal	86.0	0.1	3.578E-04	3.578E-04	3.578E-04
1,4-Dioxane	88.0	0.1	3.661E-04	3.661E-04	3.661E-04
Methyl Methacrylate	100.0	0.1	4.160E-04	4.160E-04	4.160E-04
Cyclopentanone	84.0	0.1	3.494E-04	3.494E-04	3.494E-04
Hexanal	100.0	0.1	4.160E-04	4.160E-04	4.160E-04
2-Furaldehyde	96.0	0.1	3.994E-04	3.994E-04	3.994E-04

Analyte	Molecular Weight	Detection Limit - Amount Detected, ug/m³ or ppbv	Detection Limit -Amount Detected, mg/m ³	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m ³
Cyclohexanone	98.0	0.1	4.077E-04	4.077E-04	4.077E-04
Heptanal	114.0	0.1	4.742E-04	4.742E-04	4.742E-04
2-Butoxyethanol	118.0	0.1	4.909E-04	4.909E-04	4.909E-04
Benzaldehyde	106.0	0.1	4.410E-04	4.410E-04	4.410E-04
6-Methyl-5-hepten-2-one	126.0	0.1	5.242E-04	5.242E-04	5.242E-04
Octanal	128.0	0.1	5.325E-04	5.325E-04	5.325E-04
Benzofuran	118.0	0.1	4.909E-04	4.909E-04	4.909E-04
2-Ethyl-1-hexanol	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Acetophonone	120.0	0.1	4.992E-04	4.992E-04	4.992E-04
Nonanai	142.0	0.1	5.907E-04	5.907E-04	5.907E-04
Decanal	156.0	0.1	6.490E-04	6.490E-04	6.490E-04
Carbonyl Sulfide	60.0	0.1	2.496E-04	2.496E-04	2.496E-04
Carbon Disulfide	76.0	0.1	3.162E-04	3.162E-04	3.162E-04
Thiophene	84.0	0.1	3.494E-04	3.494E-04	3.494E-04
Dimethyldisulfide	94.0	0.1	3.910E-04	3.910E-04	3.910E-04

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APPENDIX II-F. SVOC DATA RESULTS

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SIMULATOR BOOBY TRAP FLASH M117

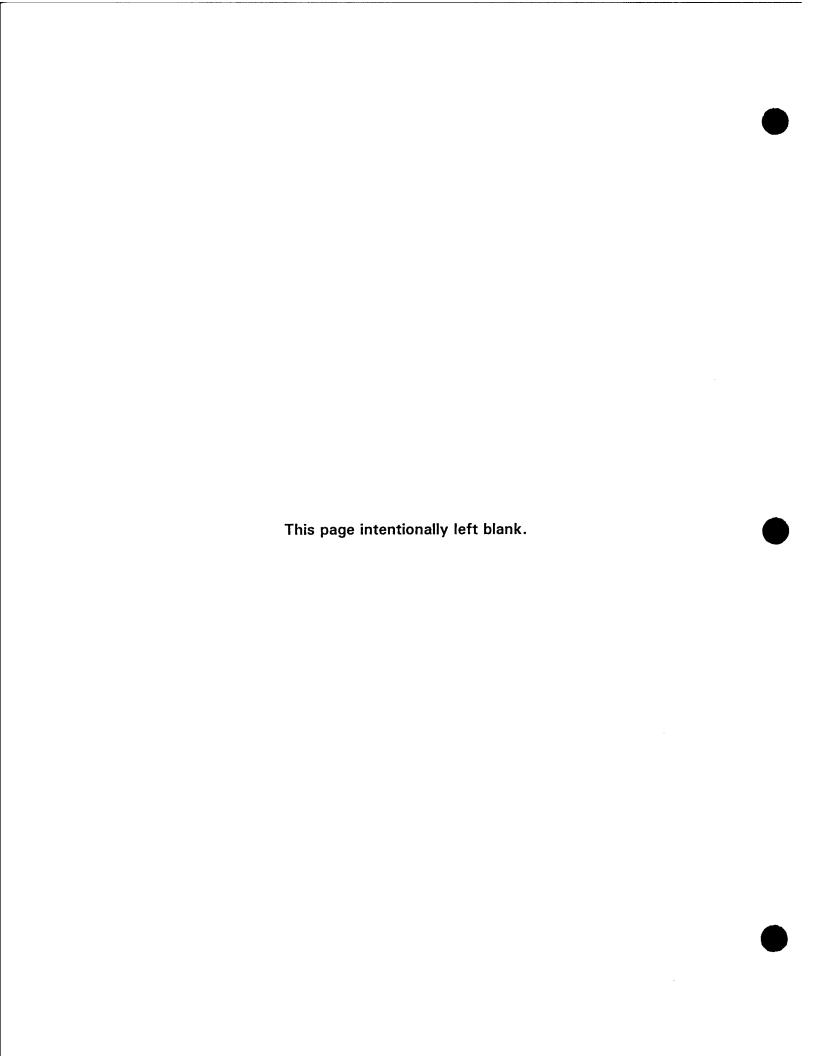


TABLE F-1. AEC - RUN NO. 1 BT TEST (28 MARCH 1998)

articulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

Analyzed by: Radian International LLC

Analyte	Run 1 Train A - Amount Detected, ug	Run 1 Train A -Detection Limit, ug	Run 1 Train A - Concentration, mg/m ³	Run 1 Train B - Amount Detected, ug	Run 1 Train B -Detection Limit, ug	Run 1 Train B - Concentration, mg/m³	Average Concentration - Run 1, mg/m³
N-Nitrosodimethylamine	ND ND	0.348	ND	ND	0.348	ND	ND
Pyridine	ND ND	1.02	ND	ND ND	1.02	ND ND	ND ND
2-Picoline	ND ND	1.06	ND	ND ND	1.02	ND ND	ND ND
Methyl methanesulfonate	ND	0.401	ND	ND	0.401	ND ND	ND ND
N-Nitrosomethylethylamine	ND	0.796	ND ND	ND ND	0.401	ND	ND ND
N-Nitrosodiethylamine	ND	0.85	ND	ND ND	0.750	ND ND	ND ND
Ethyl methanesulfonate	ND	0.391	ND	ND ND	0.391	ND	ND ND
Phenol	ND	0.25	ND	ND	0.25	ND ND	ND ND
Aniline	ND	0.399	ND	ND ND	0.399	ND	ND ND
bis(2-Chloroethyl)ether	ND	0.312	ND	ND	0.312	ND	ND ND
Pentachloroethane	ND	0.721	ND	ND	0.721	ND	ND
2-Chlorophenol	ND	0.159	ND	ND	0.159	ND	ND
1,3-Dichlorobenzene	ND	0.307	ND	ND	0.307	ND	ND
1,4-Dichlorobenzene	ND	0.616	ND	ND	0.616	ND	ND
Benzyl alcohol	ND	0.697	ND	ND	0.697	ND	ND
2-Methylphenol	ND	0.561	ND	ND	0.561	ND	ND
1,2-Dichlorobenzene	ND	0.446	ND	ND	0.446	ND	ND
bis(2-Chloroisopropyl)ether	ND	0.376	ND	ND	0.376	ND	ND
o-Toluidine	ND	0.396	ND	ND	0.396	ND	ND
4-Methylphenol/3-Methylphenol	ND	0.474	ND	ND	0.474	ND	ND
N-Nitroso-di-n-propylamine	ND	0.281	ND	ND	0.281	ND	ND
Acetophenone	0.86	0.295	3.623E-04	ND	0.295	ND	3.623E-04
I-Nitrosomorpholine	ND	0.899	ND	ND	0.899	ND	ND
N-Nitrosopyrrolidine	ND	1.19	ND	ND	1.19	ND	ND
Hexachloroethane	ND	0.494	ND	ND	0.494	ND	ND
Nitrobenzene	ND	0.891	ND	ND	0.891	ND	ND
N-Nitrosopiperidine	ND	0.729	ND	ND	0.729	ND	ND
Isophorone	ND	0.214	ND	ND	0.214	ND	ND
2,4-Dimethylphenol	ND	0.337	ND	ND	0.337	ND	ND
2-Nitrophenol	ND ND	0.536	ND	ND	0.536	ND	ND
bis(2-Chloroethoxy)methane Benzoic acid	7.59	0.391 36.6	ND ND	ND	0.391	ND	ND
2,4-Dichlorophenol	7.59 ND	0.49	ND ND	ND ND	36.6	ND ND	ND ND
1,2,4-Trichlorobenzene	ND ND	0.49	ND ND	ND ND	0.49 0.353	ND ND	ND ND
Naphthalene	0.584	0.447	2.460E-04	0.736	0.333	3.551E-04	3.006E-04
p-Chloroaniline	ND	0.322	ND	ND	0.322	ND	3.000E-04
2,6-Dichlorophenol	ND	0.344	ND	ND	0.344	ND	ND ND
Hexachloropropene	ND	0.565	ND	ND	0.565	ND	ND
Hexachlorobutadiene	ND	0.51	ND	ND	0.51	ND	ND
Dimethylphenethylamine	ND	20.4	ND	ND	20.4	ND	ND
N-Nitroso-di-n-butylamine	ND	0.374	ND	ND	0.374	ND	ND
4-Chloro-3-methylphenol	ND	0.567	ND	ND	0.567	ND	ND
Safrole	ND	0.711	ND	ND	0.711	ND	ND
2-Methylnaphthalene	ND	0.359	ND	ND	0.359	ND	ND
1,2,4,5-Tetrachlorobenzene	ND	0.546	ND	ND	0.546	ND	ND
Hexachlorocyclopentadiene	ND	11.1	ND	ND	11.1	ND	ND
2,4,6-Trichlorophenol	ND	0.631	ND	ND	0.631	ND	ND
2,4,5-Trichlorophenol	ND	0.536	ND	ND	0.536	ND	ND
Isosafrole	ND	1.08	ND	ND	1.08	ND	ND
2-Chioronaphthalene	ND	0.564	ND	ND	0.564	ND	ND
2-Nitroaniline	ND	0.358	ND	ND	0.358	ND	ND
1,4-Naphthoquinone	ND ND	1	ND	ND	1	ND	ND
Dimethylphthalate	ND	0.291	ND ND	ND	0.291	ND	ND
1,3-Dinitrobenzene	ND	0.837	ND	ND	0.837	ND	ND
2,6-Dinitrotoluene	ND ND	0.704	ND ND	ND	0.704	ND	ND ND
Acenaphthylene 3-Nitroaniline	ND	0.327	ND ND	ND ND	0.327	ND ND	ND ND
o-ividoaniinie	ND	0.881	ND	ND	0.881	ND	ND

TABLE F-1. AEC - RUN NO. 1 BT TEST (28 MARCH 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

Analyzed by: Radian International LLC

4-Nitrophenol 2,4-Dinitrophenol Acenaphthene 2,4-Dinitrotoluene Dibenzofuran Pentachlorobenzene 1-Naphthylamine 2-Naphthylamine	ND ND ND ND	30.7 31.5 0.36	ND ND		Limit, ug	mg/m³	Run 1, mg/m³
Acenaphthene 2,4-Dinitrotoluene Dibenzofuran Pentachlorobenzene 1-Naphthylamine	ND ND ND		NID	ND	30.7	ND	ND
Acenaphthene 2,4-Dinitrotoluene Dibenzofuran Pentachlorobenzene 1-Naphthylamine	ND ND	0.36	NU	ND	31.5	ND	ND
2,4-Dinitrotoluene Dibenzofuran Pentachlorobenzene 1-Naphthylamine	ND ND		ND	ND	0.36	ND	ND
Dibenzofuran Pentachlorobenzene 1-Naphthylamine		0.445	ND	ND	0.445	ND	ND
Pentachlorobenzene 1-Naphthylamine		0.244	ND	ND	0.244	ND	ND
1-Naphthylamine	ND	0.674	ND	ND	0.674	ND	ND
	ND	1.76	ND	ND	1.76	ND	ND
	ND	1.56	ND	ND	1.56	ND	ND
2,3,4,6-Tetrachlorophenol	ND	0.714	ND	ND	0.714	ND	ND
Diethylphthalate	0.476	0.26	2.005E-04	0.634	0.26	3.059E-04	2.532E-04
4-Chlorophenylphenyl ether	ND	0.283	ND	ND	0.283	ND	ND
Fluorene	ND	0.34	ND	ND	0.34	ND	ND
5-Nitro-o-toluidine	ND ND	0.363	ND	ND	0.363	ND	ND
4-Nitroaniline	ND	0.775	ND	ND	0.775	ND	ND
4,6-Dinitro-2-methylphenol	ND	27.2	ND	ND	27.2	ND	ND
Diphenylamine/N-NitrosoDPA	ND	0.368	ND	ND	0.368	ND	ND
sym-Trinitrobenzene	ND	1.25	ND ND	ND	1.25	ND ND	ND ND
Diallate	ND	0.475	ND	ND	0.475	ND	ND
Phenacetin	ND	0.224	ND	ND	0.224	ND	ND
4-Bromophenylphenyl ether	ND	0.689	ND ND	ND	0.689	ND	ND
Hexachlorobenzene	ND	0.371	ND	ND	0.371	ND	ND
4-Aminobiphenyl	ND	2.07	ND ND	ND ND	2.07	ND	ND
Pronamide	ND	0.257	ND	ND ND	0.257	ND ND	ND
Pentachlorophenol	ND	28.8	ND	ND	28.8	ND	ND
Pentachloronitrobenzene	ND	1.34	ND	ND	1.34	ND	ND
Phenanthrene	ND	0.61	ND	0.43	0.61	ND ND	ND
Anthracene	ND	0.366	ND	ND ND	0.366	ND	ND
Carbazole	ND	0.245	ND ND	ND	0.245	ND	ND
Di-n-butylphthalate	2.82	0.17	1.188E-03	3.49	0.17	1.684E-03	1.436E-03
4-Nitroquinoline-1-oxide	ND	22.5	ND	ND ND	22.5	ND	ND
Methapyrilene	ND	20.7	ND ND	ND	20.7	ND	ND
Fluoranthene	ND	0.361	ND	ND	0.361	ND	ND
Benzidine	ND	13.4	ND	ND ND	13.4	ND	ND
Pyrene	ND	0.496	ND	ND	0.496	ND	ND
p-Dimethylaminoazobenzene	ND ND	0.368	ND	ND ND	0.368	ND	ND
Chlorobenzilate	ND	0.512	ND ND	ND	0.512	ND ND	ND
Kepone	ND	18.8	ND	ND ND	18.8	ND	ND
Butylbenzylphthalate	0.751	0.205	3.164E-04	0.688	0.205	3.320E-04	3.242E-04
3,3'-Dimethylbenzidine	ND ND	1.98	ND	ND ND	1.98	ND ND	ND .
2-Acetylaminofluorene	ND	0.312	ND	ND ND	0.312	ND	ND
bis(2-Ethylhexyl)phthalate	0.788	1.22	ND	0.625	1.22	ND ND	ND
3.3'-Dichlorobenzidine	ND	0.335	ND ND	ND ND	0.335	ND ND	ND
Benz(a)anthracene	ND ND	0.333	ND ND	ND ND	0.353	ND ND	ND ND
Chrysene	ND	0.488	ND ND	ND ND	0.488	ND	ND ND
Di-n-octylphthalate	ND	0.466	ND ND	ND ND	0.400	ND	ND
7,12-Dimethylbenz(a)anthracene	ND ND	0.461	ND	ND ND	0.461	ND	ND
Benzo(b)fluoranthene (a)	ND	0.461	ND	ND ND	0.401	ND	ND ND
Benzo(k)fluoranthene (a)	ND ND	0.278	ND ND	ND ND	0.581	ND ND	ND ND
	ND ND		ND ND	ND ND	0.329	ND	ND ND
Benz(a)pyrene 3-Methylcholanthrene	ND ND	0.329	ND ND	ND ND	1.17	ND	ND
		1.17	ND ND	ND ND	0.219	ND ND	ND ND
Indeno(1,2,3-cd)pyrene	ND	0.219		ND ND	0.219	ND ND	ND ND
Dibenz(a,h)anthracene Benzo(g,h,i)perylene	ND ND	0.246 0.236	ND ND	ND ND	0.246	ND ND	ND ND

TABLE F-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK
Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap
Compounds below the DLs are listed as nondetected (ND)
Analyzed by: Radian International LLC

	Background -	Background - Detection Limit,	Background - Concentration,	Reagent Blank - Amount	Reagent Blank - Detection Limit,	Field Blank - Amount	Field Blank - Detection Limit,
Analyte	Sin 'neiseign' in	600		So negera	660	Detected, ag	970
N-initrosogimetriyiariili ie	2 2	1.040	2 2		0.040	2 2	25.0
Pyridine	2 2	20.1		2 2	70.1		1.02
2-Picoline	QN	1.06	ON	ON	1.06	ON.	90.1
Methyl methanesulfonate	Q	0.401	ND	Q	0.401	ND	0.401
N-Nitrosomethylethylamine	QN	962'0	QN	ΠN	0.796	ND	0.796
N-Nitrosodiethylamine	QV	0.85	QN	QN	0.85	QN	0.85
Ethyl methanesulfonate	QN	0.391	QN	QN	0.391	QN	0.391
Phenol	QN	0.25	QN	QN	0.25	Q	0.25
Aniline	QN	0.399	QN	Q	0.399	QN	0.399
bis(2-Chloroethyl)ether	QN	0.312	QN	QN	0.312	QN	0.312
Pentachloroethane	QN	0.721	QN	QN	0.721	ON	0.721
2-Chlorophenol	QV	0.159	Q	QN	0.159	QN	0.159
1,3-Dichlorobenzene	Q	0.307	QN	QN	0.307	QN	0.307
1,4-Dichlorobenzene	QV	0.616	QN	QN	0.616	QN	0.616
Benzyl alcohol	QN	0.697	QN	ΩN	269.0	QN	0.697
2-Methylphenol	QN	0.561	QN	ΩN	0.561	DN	0.561
1,2-Dichlorobenzene	ΩN	0.446	QN	ΔN	0.446	QN	0.446
bis(2-Chloroisopropyl)ether	QN	0.376	QN	ΠN	0.376	QN	0.376
o-Toluidine	QN	0.396	QN	QN	968.0	QN	0.396
4-Methylphenol/3-Methylphenol	ΠN	0.474	QN	ΠN	0.474	QN	0.474
N-Nitroso-di-n-propylamine	QN	0.281	QN	ΩN	0.281	QN	0.281
Acetophenone	0.951	0.295	2.808E-04	0.578	0.295	ND	0.295
N-Nitrosomorpholine	QN	0.899	QN	ΩN	0.899	DN	0.899
N-Nitrosopyrrolidine	QN	1.19	QN	GN	1.19	ND	1.19
Hexachloroethane	QN	0.494	QN	ΩN	0.494	ND	0.494
Nitrobenzene	QN	0.891	QN	ΠN	0.891	ND	0.891
N-Nitrosopiperidine	QN	0.729	QN	ΩN	0.729	ND	0.729
Isophorone	QN	0.214	QN	GΝ	0.214	ND	0.214
2,4-Dimethylphenol	QN	0.337	QN	ΩN	0.337	QN	0.337
2-Nitrophenol	QN	0.536	QN	QN	0.536	ND	0.536
bis(2-Chloroethoxy)methane	QN	0.391	QN	QN	0.391	QN	0.391
Benzoic acid	2.99	36.6	QN	QN	36.6	ND	36.6

TABLE F-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

	Background -	Background -	Background - Concentration.	Reagent Blank -	Reagent Blank -	Field Blank -	Field Blank -
Analyte	Detected, ug	ng ng	mg/m³	Detected, ug	ng	Detected, ug	ug
2,4-Dichlorophenol	QN	0.49	QN	QN	0.49	QN	0.49
1,2,4-Trichlorobenzene	ND	0.353	QN	QN	0.353	ND	0.353
Naphthalene	QN	0.447	QN	QN	0.447	ΩN	0.447
p-Chloroaniline	ND	0.322	ND	ND	0.322	QN	0.322
2,6-Dichlorophenol	QN	0.344	QN	QN	0.344	ΩN	0.344
Hexachloropropene	QN	0.565	Q	QN	0.565	QN	0.565
Hexachlorobutadiene	QN	0.51	QN	QN	0.51	QN	0.51
Dimethylphenethylamine	QN	20.4	QN	QN	20.4	ΩN	20.4
N-Nitroso-di-n-butylamine	QN	0.374	ON	QN	0.374	QN	0.374
4-Chloro-3-methylphenol	QN	0.567	QN	QN	0.567	QN	0.567
Safrole	DN	0.711	ND	QN	0.711	QN	0.711
2-Methylnaphthalene	QN	0.359	ON	QN	0.359	QN	0.359
1,2,4,5-Tetrachlorobenzene	ON	0.546	ND	QN	0.546	QN	0.546
Hexachlorocyclopentadiene	QN	11.1	QN	QN	11.1	QN	11.1
2,4,6-Trichlorophenol	QN	0.631	QN	QN	0.631	QN	0.631
2,4,5-Trichlorophenol	DN	0.536	ND	QN	0.536	ND	0.536
Isosafrole	DN	1.08	QN	QN	1.08	ND	1.08
2-Chloronaphthalene	QN	0.564	QN	QN	0.564	QN	0.564
2-Nitroaniline	QN	0.358	ON	QN	0.358	QN	0.358
1,4-Naphthoquinone	QN	1	DN	UD	1	ND	1
Dimethylphthalate	QN	0.291	QN	ON	0.291	ND	0.291
1,3-Dinitrobenzene	QN	0.837	QN	ND	0.837	ND	0.837
2,6-Dinitrotoluene	Q	0.704	QN	QN	0.704	ND	0.704
Acenaphthylene	QN	0.327	QN	ND	0.327	ND	0.327
3-Nitroaniline	QN	0.881	QN	QN	0.881	QN	0.881
4-Nitrophenol	QN	30.7	QN	DN	30.7	ND	30.7
2,4-Dinitrophenol	ND	31.5	QN	QN	31.5	QN	31.5
Acenaphthene	ND	0.36	ND	ND	0.36	ND	0.36
2,4-Dinitrotoluene	ND	0.445	QN	ON	0.445	QN	0.445
Dibenzofuran	Ω	0.244	QN	ND	0.244	QN	0.244
Pentachlorobenzene	Q	0.674	QN	ND	0.674	Q	0.674
1-Naphthylamine	Q	1.76	QN	QN	1.76	Q	1.76

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC TABLE F-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Analyte	Background - Amount Detected, ug	Background - Detection Limit, ug	Background - Concentration, mg/m³	Reagent Blank - Amount Detected, ug	Reagent Blank- Detection Limit, ug	Field Blank - Amount Detected, ug	Field Blank- Detection Limit,
2-Naphthylamine	QN	1.56	QN	QN	1.56	DN	1.56
2,3,4,6-Tetrachlorophenol	Q	0.714	ON	QN	0.714	QN	0.714
Diethylphthalate	1.47	0.26	4.340E-04	QN	0.26	ΩN	0.26
4-Chlorophenylphenyl ether	ON	0.283	ND	ΩN	0.283	QN	0.283
Fluorene	ND	0.34	ND	QN	0.34	QN	0.34
5-Nitro-o-toluidine	QN	0.363	ON	QN	0.363	QΝ	0.363
4-Nitroaniline	ND	0.775	ND	QN	0.775	QN	0.775
4,6-Dinitro-2-methylphenol	ND	27.2	ND	QN	27.2	QN	27.2
Diphenylamine/N-NitrosoDPA	QN	0.368	QN	ΩN	0.368	QN	0.368
sym-Trinitrobenzene	QN	1.25	ND	QN	1.25	QN	1.25
Diallate	ND	0.475	ND	GN	0.475	QN	0.475
Phenacetin	QN	0.224	ON	QN	0.224	ΩN	0.224
4-Bromophenylphenyl ether	ON	0.689	ND	QN	0.689	QΝ	0.689
Hexachlorobenzene	QN	0.371	ND	QN	0.371	QN	0.371
4-Aminobiphenyl	ND	2.07	ND	QN	2.07	QN	2.07
Pronamide	ND	0.257	ND	QN	0.257	QN	0.257
Pentachlorophenol	ND	28.8	ND	QN	28.8	ΩN	28.8
Pentachloronitrobenzene	ND	1.34	ND	QN	1.34	QN	1.34
Phenanthrene	ND	0.61	ND	QN	0.61	QN	0.61
Anthracene	ND	0.366	ND	QN	0.366	QN	0.366
Carbazole	QN	0.245	ND	QN	0.245	Q	0.245
Di-n-butylphthalate	2.63	0.17	7.766E-04	5.39	0.17	2.93	0.17
4-Nitroquinoline-1-oxide	QN	22.5	QN	ΩN	22.5	ΝΩ	22.5
Methapyrilene	ND	20.7	ND	QN	20.7	ND	20.7
Fluoranthene	ND	0.361	ND	QN	0.361	ON	0.361
Benzidine	ND	13.4	ND	QN	13.4	QN	13.4
Pyrene	ND	0.496	ND	QN	0.496	ON .	0.496
p-Dimethylaminoazobenzene	ND	0.368	ND	QN	0.368	QN	0.368
Chlorobenzilate	ND	0.512	ND	QN	0.512	QN	0.512
Kepone	QN	18.8	ND	QN	18.8	QN	18.8
Butylbenzylphthalate	ND	0.205	ND	QN	0.205	0.514	0.205
3,3'-Dimethylbenzidine	QN	1.98	QN	QN	1.98	QN	1.98

TABLE F-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK
Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap
Compounds below the DLs are listed as nondetected (ND)
Analyzed by: Radian International LLC

	Background - Amount	Background - Detection Limit,	Background - Concentration,	Reagent Blank - Amount	Reagent Blank - Detection Limit,	Field Blank -	Field Blank - Detection Limit,
Analyte	Detected, ug	бп	mg/m³	Detected, ug	- Bn	Detected, ug	бn
2-Acetylaminofluorene	ON	0.312	QN	QN	0.312	ND	0.312
bis(2-Ethylhexyl)phthalate	1.05	1.22	QN	QN	1.22	2.56	1.22
3,3'-Dichlorobenzidine	Q	0.335	QV	QN	988.0	QN	0.335
Benz(a)anthracene	QN	0.452	QN	QN	0.452	ND	0.452
Chrysene	Q	0.488	QN	QN	0.488	ND	0.488
Di-n-octylphthalate	QN	0.312	QN	QN	0.312	ND	0.312
7,12-Dimethylbenz(a)anthracene	QN	0.461	Q	QN	0.461	ON	0.461
Benzo(b)fluoranthene (a)	QN	0.278	QN	QN	0.278	QN	0.278
Benzo(k)fluoranthene (a)	QN	0.581	ON	QN	0.581	ON	0.581
Benz(a)pyrene	QN	0.329	ON	QN	0.329	ON	0.329
3-Methylcholanthrene	QN	1.17	QN	QN	1.17	ON	1.17
Indeno(1,2,3-cd)pyrene	QN	0.219	ON	QN	0.219	ON	0.219
Dibenz(a,h)anthracene	QN	0.246	ON	QN	0.246	ND	0.246
Benzo(g,h,i)perylene	ND	0.236	QN	QN	0.236	QN	0.236

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

TABLE F-3. AEC - RUN NO. 1 BT TEST (28 MARCH 1998)Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

Analyte	 38 CuGOG: 1.000000000000000000000000000000000000	Run 1 Train B -Detection Limit, ug	Average Maximum Detection Limit - Concentration, mg/m ³	Average Minimum Detection Limit - Concentration, mg/m³
N-Nitrosodimethylamine	0.348	0.348	1.565E-04	1.565E-04
Pyridine	1.02	1.02	4.588E-04	4.588E-04
2-Picoline	1.06	1.06	4.768E-04	4.768E-04
Methyl methanesulfonate	0.401	0.401	1.804E-04	1.804E-04
N-Nitrosomethylethylamine	0.796	0.796	3.581E-04	3.581E-04
N-Nitrosodiethylamine	0.85	0.85	3.824E-04	3.824E-04
Ethyl methanesulfonate	0.391	0.391	1.759E-04	1.759E-04
Phenol	0.25	0.25	1.125E-04	1.125E-04
Aniline	0.399	0.399	1.795E-04	1.795E-04
bis(2-Chloroethyl)ether	0.312	0.312	1.403E-04	1.403E-04
Pentachloroethane	0.721	0.721	3.243E-04	3.243E-04
2-Chlorophenol	0.159	0.159	7.152E-05	7.152E-05
1,3-Dichlorobenzene	0.307	0.307	1.381E-04	1.381E-04
1,4-Dichlorobenzene	0.616	0.616	2.771E-04	2.771E-04
Benzyl alcohol	0.697	0.697	3.135E-04	3.135E-04
2-Methylphenol	0.561	0.561	2.524E-04	2.524E-04
1,2-Dichlorobenzene	0.446	0.446	2.006E-04	2.006E-04
bis(2-Chloroisopropyl)ether	0.376	0.376	1.691E-04	1.691E-04
o-Toluidine	0.396	0.396	1.781E-04	1.781E-04
4-Methylphenol/3-Methylphenol	0.474	0.474	2.132E-04	2.132E-04
N-Nitroso-di-n-propylamine	0.281	0.281	1.264E-04	1.264E-04
Acetophenone	0.295	0.295	1.327E-04	1.327E-04
N-Nitrosomorpholine	0.899	0.899	4.044E-04	4.044E-04
N-Nitrosopyrrolidine	1.19	1.19	5.353E-04	5.353E-04
Hexachloroethane	0.494	0.494	2.222E-04	2.222E-04
Nitrobenzene	0.891	0.891	4.008E-04	4.008E-04
N-Nitrosopiperidine	0.729	0.729	3.279E-04	3.279E-04
Isophorone	0.214	0.214	9.627E-05	9.627E-05
2,4-Dimethylphenol	0.337	0.337	1.516E-04	1.516E-04
2-Nitrophenol	0.536	0.536	2.411E-04	2.411E-04
bis(2-Chloroethoxy)methane	0.391	0.391	1.759E-04	1.759E-04
Benzoic acid	36.6	36.6	1.646E-02	1.646E-02
2,4-Dichlorophenol	0.49	0.49	2.204E-04	2.204E-04
1,2,4-Trichlorobenzene	0.353	0.353	1.588E-04	1.588E-04
Naphthalene	0.447	0.447	2.011E-04	2.011E-04
p-Chloroaniline	0.322	0.322	1.448E-04	1.448E-04
2,6-Dichlorophenol	0.344	0.344	1.547E-04	1.547E-04
Hexachloropropene	0.565	0.565	2.542E-04	2.542E-04
Hexachlorobutadiene	0.505	0.505	2.294E-04	2.294E-04
Dimethylphenethylamine	20.4	20.4	9.177E-03	9.177E-03

TABLE F-3. AEC - RUN NO. 1 BT TEST (28 MARCH 1998)

Compounds below the DLs are listed as nondetected (ND)

Analyte		Run 1 Train B -Detection Limit, ug	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
N-Nitroso-di-n-butylamine	0.374	0.374	1.682E-04	1.682E-04
4-Chloro-3-methylphenol	0.567	0.567	2.551E-04	2.551E-04
Safrole	0.711	0.711	3.198E-04	3.198E-04
2-Methylnaphthalene	0.359	0.359	1.615E-04	1.615E-04
1,2,4,5-Tetrachlorobenzene	0.546	0.546	2.456E-04	2.456E-04
Hexachlorocyclopentadiene	11.1	11.1	4.993E-03	4.993E-03
2,4,6-Trichlorophenol	0.631	0.631	2.838E-04	2.838E-04
2,4,5-Trichlorophenol	0.536	0.536	2.411E-04	2.411E-04
Isosafrole	1.08	1.08	4.858E-04	4.858E-04
2-Chloronaphthalene	0.564	0.564	2.537E-04	2.537E-04
2-Nitroaniline	0.358	0.358	1.610E-04	1.610E-04
1,4-Naphthoquinone	1	1	4.498E-04	4.498E-04
Dimethylphthalate	0.291	0.291	1.309E-04	1.309E-04
1,3-Dinitrobenzene	0.837	0.837	3.765E-04	3.765E-04
2,6-Dinitrotoluene	0.704	0.704	3.167E-04	3.167E-04
Acenaphthylene	0.327	0.327	1.471E-04	1.471E-04
3-Nitroaniline	0.881	0.881	3.963E-04	3.963E-04
4-Nitrophenol	30.7	30.7	1.381E-02	1.381E-02
2,4-Dinitrophenol	31.5	31.5	1.417E-02	1.417E-02
Acenaphthene	0.36	0.36	1.619E-04	1.619E-04
2,4-Dinitrotoluene	0.445	0.445	2.002E-04	2.002E-04
Dibenzofuran	0.244	0.244	1.098E-04	1.098E-04
Pentachlorobenzene	0.674	0.674	3.032E-04	3.032E-04
1-Naphthylamine	1.76	1.76	7.917E-04	7.917E-04
2-Naphthylamine	1.56	1.56	7.017E-04	7.017E-04
2,3,4,6-Tetrachlorophenol	0.714	0.714	3.212E-04	3.212E-04
Diethylphthalate	0.26	0.26	1.170E-04	1.170E-04
4-Chlorophenylphenyl ether	0.283	0.283	1.273E-04	1.273E-04
Fluorene	0.34	0.34	1.529E-04	1.529E-04
5-Nitro-o-toluidine	0.363	0.363	1.633E-04	1.633E-04
4-Nitroaniline	0.775	0.775	3.486E-04	3.486E-04
4,6-Dinitro-2-methylphenol	27.2	27.2	1.224E-02	1.224E-02
Diphenylamine/N-NitrosoDPA	0.368	0.368	1.655E-04	1.655E-04
sym-Trinitrobenzene	1.25	1.25	5.623E-04	5.623E-04
Diallate	0.475	0.475	2.137E-04	2.137E-04
Phenacetin	0.224	0.224	1.008E-04	1.008E-04
4-Bromophenylphenyl ether	0.689	0.689	3.099E-04	3.099E-04
Hexachlorobenzene	0.371	0.371	1.669E-04	1.669E-04
4-Aminobiphenyl	2.07	2.07	9.312E-04	9.312E-04
Pronamide	0.257	0.257	1.156E-04	1.156E-04

TABLE F-3. AEC - RUN NO. 1 BT TEST (28 MARCH 1998)

Compounds below the DLs are listed as nondetected (ND)

Analyte	A -Detection	Run 1 Train B -Detection Limit, ug	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
Pentachlorophenol	28.8	28.8	1.296E-02	1.296E-02
Pentachloronitrobenzene	1.34	1.34	6.028E-04	. 6.028E-04
Phenanthrene	0.61	0.61	2.744E-04	2.744E-04
Anthracene	0.366	0.366	1.646E-04	1.646E-04
Carbazole	0.245	0.245	1.102E-04	1.102E-04
Di-n-butylphthalate	0.17	0.17	7.647E-05	7.647E-05
4-Nitroquinoline-1-oxide	22.5	22.5	1.012E-02	1.012E-02
Methapyrilene	20.7	20.7	9.312E-03	9.312E-03
Fluoranthene	0.361	0.361	1.624E-04	1.624E-04
Benzidine	13.4	13.4	6.028E-03	6.028E-03
Pyrene	0.496	0.496	2.231E-04	2.231E-04
p-Dimethylaminoazobenzene	0.368	0.368	1.655E-04	1.655E-04
Chlorobenzilate	0.512	0.512	2.303E-04	2.303E-04
Kepone	18.8	18.8	8.457E-03	8.457E-03
Butylbenzylphthalate	0.205	0.205	9.222E-05	9.222E-05
3,3'-Dimethylbenzidine	1.98	1.98	8.907E-04	8.907E-04
2-Acetylaminofluorene	0.312	0.312	1.403E-04	1.403E-04
bis(2-Ethylhexyl)phthalate	1.22	1.22	5.488E-04	5.488E-04
3,3'-Dichlorobenzidine	0.335	0.335	1.507E-04	1.507E-04
Benz(a)anthracene	0.452	0.452	2.033E-04	2.033E-04
Chrysene	0.488	0.488	2.195E-04	2.195E-04
Di-n-octylphthalate	0.312	0.312	1.403E-04	1.403E-04
7,12-Dimethylbenz(a)anthracene	0.461	0.461	2.074E-04	2.074E-04
Benzo(b)fluoranthene (a)	0.278	0.278	1.251E-04	1.251E-04
Benzo(k)fluoranthene (a)	0.581	0.581	2.614E-04	2.614E-04
Benz(a)pyrene	0.329	0.329	1.480E-04	1.480E-04
3-Methylcholanthrene	1.17	1.17	5.263E-04	5.263E-04
Indeno(1,2,3-cd)pyrene	0.219	0.219	9.851E-05	9.851E-05
Dibenz(a,h)anthracene	0.246	0.246	1.107E-04	1.107E-04
Benzo(g,h,i)perylene	0.236	0.236	1.062E-04	1.062E-04

a
Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

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SIMULATOR FLASH ARTILLERY M110

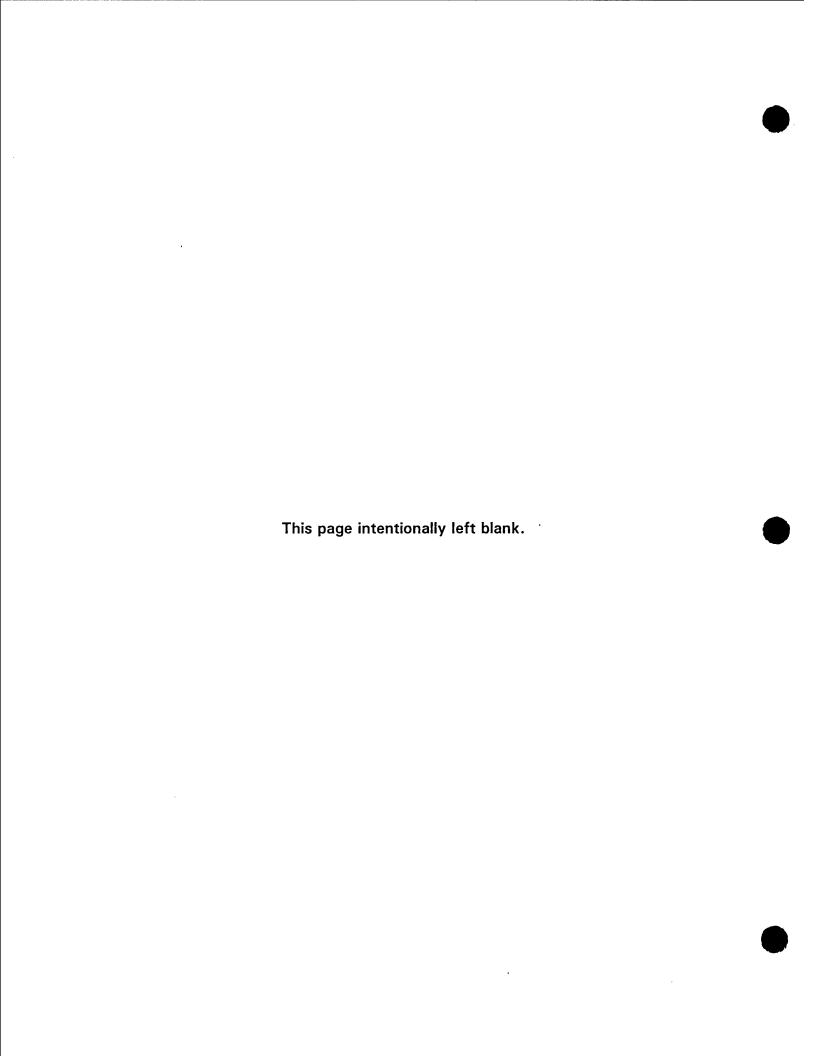


TABLE F-1. AEC - RUN NO. 1 FA TEST (28 MARCH 1998)
Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

Profession State Analyte	Run 1 Train A - Amount Detected, ug	Run 1 Train A -Detection Limit, ug	Run 1 Train A - Concentration, mg/m³	Average Concentration - Run 1, mg/m ³
N-Nitrosodimethylamine	ND	0.348	ND	ND
Pyridine	ND	1.02	ND	ND
2-Picoline	ND	1.06	ND	ND
Methyl methanesulfonate	ND	0.401	ND	ND
N-Nitrosomethylethylamine	ND	0.796	ND	ND
N-Nitrosodiethylamine	ND	0.85	ND	ND
Ethyl methanesulfonate	ND	0.391	ND	ND
Phenol	ND	0.25	ND	ND
Aniline	ND	0.399	ND	ND
bis(2-Chloroethyl)ether	ND	0.312	ND	ND
Pentachloroethane	ND	0.721	ND	ND
2-Chlorophenol	ND	0.159	ND	ND ND
1,3-Dichlorobenzene	ND	0.307	ND	ND
1,4-Dichlorobenzene	ND	0.616	ND	ND ND
Benzyl alcohol	1.31	0.697	4.289E-04	4.289E-04
2-Methylphenol	ND ND	0.561	ND	ND
1,2-Dichlorobenzene	ND	0.446	ND ND	ND ND
bis(2-Chloroisopropyl)ether	ND	0.376	ND	ND ND
o-Toluidine	ND	0.396	ND ND	ND ND
4-Methylphenol/3-Methylphenol	1.34	0.474	4.388E-04	4.388E-04
N-Nitroso-di-n-propylamine	ND ND	0.281	ND	ND
Acetophenone	ND	0.295	ND ND	ND ND
N-Nitrosomorpholine	ND	0.899	ND ND	ND ND
N-Nitrosopyrrolidine	ND	1.19	ND ND	ND ND
Hexachloroethane	ND	0.494	ND ND	ND ND
Nitrobenzene	ND	0.494	ND ND	ND ND
N-Nitrosopiperidine	ND ND	0.729	ND ND	ND ND
Isophorone	ND	0.729	ND ND	ND ND
2,4-Dimethylphenol	ND	0.214	ND ND	ND
2-Nitrophenol	ND ND	0.536	ND	ND
bis(2-Chloroethoxy)methane	ND	0.391	ND ND	ND
Benzoic acid	ND	36.6	ND ND	ND
2,4-Dichlorophenol	ND	0.49	ND ND	
1,2,4-Trichlorobenzene	ND ND	+	ND ND	ND ND
Naphthalene		0.353		
p-Chloroaniline	77.6	0.447	2.541E-02	2.541E-02
	ND	0.322	ND	ND
2,6-Dichlorophenol	ND ND	0.344	ND	ND
Hexachloropropene	ND	0.565	ND	ND
Hexachlorobutadiene	ND	0.51	ND	ND
Dimethylphenethylamine	ND	20.4	ND	ND
N-Nitroso-di-n-butylamine	ND	0.374	ND	ND

TABLE F-1. AEC - RUN NO. 1 FA TEST (28 MARCH 1998)

Compounds below the DLs are listed as nondetected (ND)

Analyte	Run 1 Train A - Amount Detected, ug	Run 1 Train A -Detection Limit, ug	mg/m³	Average Concentration - Run 1, mg/m³
4-Chloro-3-methylphenol	ND	0.567	ND	ND
Safrole	ND	0.711	ND	ND
2-Methylnaphthalene	28.5	0.359	9.332E-03	9.332E-03
1,2,4,5-Tetrachlorobenzene	ND	0.546	ND	ND
Hexachlorocyclopentadiene	ND	11.1	ND	ND
2,4,6-Trichlorophenol	ND	0.631	ND	ND
2,4,5-Trichlorophenol	ND	0.536	ND	ND
Isosafrole	ND	1.08	ND	ND
2-Chloronaphthalene	ND	0.564	ND	ND
2-Nitroaniline	ND	0.358	ND	ND
1,4-Naphthoquinone	ND	1	ND	ND
Dimethylphthalate	ND	0.291	ND	ND
1,3-Dinitrobenzene	ND	0.837	ND	ND
2,6-Dinitrotoluene	ND	0.704	ND	ND
Acenaphthylene	1.72	0.327	5.632E-04	5.632E-04
3-Nitroaniline	ND	0.881	ND	ND
4-Nitrophenol	ND	30.7	ND	ND
2,4-Dinitrophenol	ND	31.5	ND	ND
Acenaphthene	ND	0.36	ND	ND
2,4-Dinitrotoluene	ND	0.445	ND	ND
Dibenzofuran	ND	0.244	ND	ND
Pentachlorobenzene	ND	0.674	ND	ND
1-Naphthylamine	ND	1.76	ND	ND
2-Naphthylamine	ND	1.56	ND	ND
2,3,4,6-Tetrachlorophenol	ND	0.714	ND	ND
Diethylphthalate	0.378	0.26	1.238E-04	1.238E-04
4-Chlorophenylphenyl ether	ND	0.283	ND .	ND
Fluorene	ND	0.34	ND	ND
5-Nitro-o-toluidine	ND	0.363	ND	ND
4-Nitroaniline	ND	0.775	ND	ND
4,6-Dinitro-2-methylphenol	ND	27.2	ND	ND ND
Diphenylamine/N-NitrosoDPA	ND	0.368	ND	ND
sym-Trinitrobenzene	ND	1.25	ND_	ND ND
Diallate	ND	0.475	ND ND	ND ND
Phenacetin	ND	0.224	ND ND	ND ND
4-Bromophenylphenyl ether	ND	0.689	ND ND	ND ND
Hexachlorobenzene	ND	0.371	ND ND	ND ND
4-Aminobiphenyl	ND ND	2.07	ND ND	ND ND
Pronamide	ND	0.257	ND ND	ND ND
Pentachlorophenol	ND	28.8	ND ND	ND ND
Pentachloronitrobenzene	ND	1.34	ND	ND

TABLE F-1. AEC - RUN NO. 1 FA TEST (28 MARCH 1998)

Compounds below the DLs are listed as nondetected (ND)

The state of the s	Run 1 Train A - Amount Detected, ug	Run 1 Train A -Detection Limit, ug	Run 1 Train A - Concentration, mg/m³	Average Concentration - Run 1, mg/m ³
Phenanthrene	0.927	0.61	3.035E-04	3.035E-04
Anthracene	ND	0.366	ND	ND
Carbazole	ND	0.245	ND	ND
Di-n-butylphthalate	1.47	0.17	4.813E-04	4.813E-04
4-Nitroquinoline-1-oxide	ND	22.5	ND	ND
Methapyrilene	ND	20.7	ND	ND
Fluoranthene	ND	0.361	ND	ND
Benzidine	ND	13.4	ND	ND
Pyrene	0.292	0.496	ND	ND
p-Dimethylaminoazobenzene	ND	0.368	ND	ND
Chlorobenzilate	ND	0.512	ND	ND
Kepone	ND	18.8	ND	ND
Butylbenzylphthalate	ND	0.205	ND	ND
3,3'-Dimethylbenzidine	ND	1.98	ND	ND
2-Acetylaminofluorene	ND	0.312	ND	ND
bis(2-Ethylhexyl)phthalate	ND	1.22	ND	ND
3,3'-Dichlorobenzidine	ND	0.335	ND	ND
Benz(a)anthracene	ND	0.452	ND	ND
Chrysene	ND	0.488	ND	ND
Di-n-octylphthalate	ND	0.312	ND	ND
7,12-Dimethylbenz(a)anthracene	ND	0.461	ND	ND
Benzo(b)fluoranthene (a)	ND	0.278	ND	ND
Benzo(k)fluoranthene (a)	ND	0.581	ND	ND
Benz(a)pyrene	ND	0.329	ND	ND
3-Methylcholanthrene	ND	1.17	ND	ND
Indeno(1,2,3-cd)pyrene	ND	0.219	ND	ND
Dibenz(a,h)anthracene	ND	0.246	ND	ND
Benzo(g,h,i)perylene	ND	0.236	ND	ND

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

TABLE F-2. AEC - RUN NO. 2 FA TEST (28 MARCH 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

Analyte	Run 2 Train A - Amount Detected, ug	Run 2 Train A -Detection Limit, ug	Run 2 Train A - Concentration, mg/m³	Average Concentration - Run 2, mg/m³
N-Nitrosodimethylamine	ND	0.348	ND	ND
Pyridine	ND	1.02	ND	ND
2-Picoline	ND	1.06	ND	ND
Methyl methanesulfonate	ND	0.401	ND	ND
N-Nitrosomethylethylamine	ND	0.796	ND	ND
N-Nitrosodiethylamine	ND	0.85	ND	ND
Ethyl methanesulfonate	ND	0.391	ND	ND
Phenol	ND	0.25	ND	ND
Aniline	ND	0.399	ND	ND
bis(2-Chloroethyl)ether	ND	0.312	ND	ND
Pentachloroethane	ND	0.721	ND	ND
2-Chlorophenol	ND	0.159	ND	ND
1,3-Dichlorobenzene	ND	0.307	ND	ND
1,4-Dichlorobenzene	ND	0.616	ND	ND
Benzyl alcohol	ND	0.697	ND	ND
2-Methylphenol	ND	0.561	ND	ND
1,2-Dichlorobenzene	ND	0.446	ND	ND
bis(2-Chloroisopropyl)ether	ND	0.376	ND	ND
o-Toluidine	ND	0.396	ND	ND
4-Methylphenol/3-Methylphenol	1.66	0.474	5.304E-04	5.304E-04
N-Nitroso-di-n-propylamine	ND	0.281	ND	ND
Acetophenone	ND	0.295	ND	ND
N-Nitrosomorpholine	ND	0.899	ND	ND
N-Nitrosopyrrolidine	ND	1.19	ND	ND
Hexachloroethane	ND	0.494	ND	ND
Nitrobenzene	ND	0.891	ND	ND
N-Nitrosopiperidine	ND	0.729	ND	ND
Isophorone	ND	0.214	ND	ND
2,4-Dimethylphenol	ND	0.337	ND	ND
2-Nitrophenol	ND	0.536	ND	ND
bis(2-Chloroethoxy)methane	ND	0.391	ND	ND
Benzoic acid	ND	36.6	ND	ND
2,4-Dichlorophenol	ND	0.49	ND	ND
1,2,4-Trichlorobenzene	ND	0.353	ND	ND
Naphthalene	61.1	0.447	1.952E-02	1.952E-02
p-Chloroaniline	ND	0.322	ND	ND
2,6-Dichlorophenol	ND	0.344	ND	ND
Hexachloropropene	ND	0.565	ND	ND
Hexachlorobutadiene	ND	0.51	ND	ND
Dimethylphenethylamine	ND	20.4	ND	ND
N-Nitroso-di-n-butylamine	ND	0.374	ND	ND

TABLE F-2. AEC - RUN NO. 2 FA TEST (28 MARCH 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

Analyte	Run 2 Train A - Amount Detected, ug	Run 2 Train A -Detection Limit, ug	Run 2 Train A - Concentration, mg/m ³	Average Concentration - Run 2, mg/m ³
4-Chloro-3-methylphenol	ND	0.567	ND	ND
Safrole	ND	0.711	ND	ND
2-Methylnaphthalene	31.6	0.359	1.010E-02	1.010E-02
1,2,4,5-Tetrachlorobenzene	ND	0.546	ND	ND
Hexachlorocyclopentadiene	ND	11.1	ND	ND
2,4,6-Trichlorophenol	ND	0.631	ND	ND
2,4,5-Trichlorophenol	ND	0.536	ND	ND
Isosafrole	ND	1.08	ND	ND
2-Chloronaphthalene	ND	0.564	ND	ND
2-Nitroaniline	ND	0.358	ND	ND
1,4-Naphthoquinone	ND	1	ND	ND
Dimethylphthalate	ND	0.291	ND ND	ND ND
1,3-Dinitrobenzene	ND ND	0.837	ND	ND
2,6-Dinitrotoluene	ND ND	0.704	ND	ND
Acenaphthylene	ND ND	0.704	ND ND	ND ND
3-Nitroaniline	ND ND	0.881	ND ND	ND ND
4-Nitrophenol	ND ND	30.7	ND ND	ND ND
2,4-Dinitrophenol	ND ND			
		31.5	ND ND	ND
Acenaphthene	ND ND	0.36	ND	ND
2,4-Dinitrotoluene	ND ND	0.445	ND	ND
Dibenzofuran	ND ND	0.244	ND	ND
Pentachlorobenzene	ND	0.674	ND	ND
1-Naphthylamine	ND	1.76	ND	ND
2-Naphthylamine	ND	1.56	ND	ND
2,3,4,6-Tetrachlorophenol	ND	0.714	ND	ND
Diethylphthalate	ND	0.26	ND	ND
4-Chlorophenylphenyl ether	ND	0.283	ND	ND
Fluorene	ND	0.34	ND	ND
5-Nitro-o-toluidine	ND	0.363	ND	ND
4-Nitroaniline	ND	0.775	ND.	ND
4,6-Dinitro-2-methylphenol	ND	27.2	ND	ND
Diphenylamine/N-NitrosoDPA	ND	0.368	ND	ND
sym-Trinitrobenzene	ND	1.25	ND	ND
Diallate	ND	0.475	ND	ND
Phenacetin	ND	0.224	ND	ND
4-Bromophenylphenyl ether	ND	0.689	ND	ND
Hexachlorobenzene	ND	0.371	ND	ND .
4-Aminobiphenyl	ND	2.07	ND	ND
Pronamide	ND	0.257	ND	ND
Pentachlorophenol	ND	28.8	ND	ND
Pentachloronitrobenzene	ND	1.34	ND	ND

TABLE F-2. AEC - RUN NO. 2 FA TEST (28 MARCH 1998)

Compounds below the DLs are listed as nondetected (ND)

Analyte	Run 2 Train A - Amount Detected, ug	Run 2 Train A -Detection Limit, ug	Run 2 Train A - Concentration, mg/m³	Average Concentration - Run 2, mg/m ³
Phenanthrene	ND	0.61	ND	ND
Anthracene	ND	0.366	ND	ND
Carbazole	ND	0.245	ND	ND
Di-n-butylphthalate	4.38	0.17	1.400E-03	1.400E-03
4-Nitroquinoline-1-oxide	ND	22.5	ND	ND
Methapyrilene	ND	20.7	ND	ND
Fluoranthene	ND	0.361	ND	ND
Benzidine	ND	13.4	ND	ND
Pyrene	ND	0.496	ND	ND
p-Dimethylaminoazobenzene	ND	0.368	ND	ND
Chlorobenzilate	ND	0.512	ND	ND
Kepone	ND	18.8	ND	ND
Butylbenzylphthalate	ND	0.205	ND	ND
3,3'-Dimethylbenzidine	ND	1.98	ND	ND
2-Acetylaminofluorene	ND	0.312	ND	ND
bis(2-Ethylhexyl)phthalate	ND	1.22	ND	ND
3,3'-Dichlorobenzidine	ND	0.335	ND	ND
Benz(a)anthracene	ND	0.452	ND	ND
Chrysene	ND	0.488	ND	ND
Di-n-octylphthalate	ND	0.312	ND	ND
7,12-Dimethylbenz(a)anthracene	ND	0.461	ND	ND
Benzo(b)fluoranthene (a)	ND	0.278	ND	ND
Benzo(k)fluoranthene (a)	ND	0.581	ND	ND
Benz(a)pyrene	ND	0.329	ND	ND
3-Methylcholanthrene	ND	1.17	ND	ND
Indeno(1,2,3-cd)pyrene	ND	0.219	ND	ND
Dibenz(a,h)anthracene	ND	0.246	ND	ND
Benzo(g,h,i)perylene	ND	0.236	ND	ND

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

TABLE F-3. AEC - RUN NO. 1-2 COMPOSITE FA TEST (28 MARCH 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

Analyte	Run 1-2 Train B -Amount Detected, ug	Run 1-2 Train B - Detection Limit, ug	Run 1-2 Train B - Concentration, mg/m ³	Average Concentration - Run 1-2, mg/m ³
N-Nitrosodimethylamine	ND	0.348	ND	ND
Pyridine	ND	1.02	ND	ND
2-Picoline	ND	1.06	ND	ND
Methyl methanesulfonate	ND	0.401	ND	ND
N-Nitrosomethylethylamine	ND	0.796	ND	ND
N-Nitrosodiethylamine	ND	0.85	ND	ND
Ethyl methanesulfonate	ND	0.391	ND	ND
Phenol	ND	0.25	ND	ND
Aniline	ND	0.399	ND	ND
bis(2-Chloroethyl)ether	ND	0.312	ND	ND
Pentachloroethane	ND	0.721	ND	ND ND
2-Chlorophenol	ND ND	0.159	ND	ND
1,3-Dichlorobenzene	ND	0.307	ND	ND
1,4-Dichlorobenzene	ND	0.616	ND	ND
Benzyl alcohol	3.1	0.697	6.016E-04	6.016E-04
2-Methylphenol	ND ND	0.561	ND	ND
1,2-Dichlorobenzene	ND	0.446	ND	ND
bis(2-Chloroisopropyl)ether	ND	0.376	ND	ND
o-Toluidine	ND ND	0.396	ND ND	ND
4-Methylphenol/3-Methylphenol	2.35	0.474	4.560E-04	4.560E-04
N-Nitroso-di-n-propylamine	ND ND	0.281	ND ND	ND
Acetophenone	ND	0.295	ND	ND
N-Nitrosomorpholine	ND	0.899	ND	ND
N-Nitrosopyrrolidine	ND	1.19	ND	ND
Hexachloroethane	ND	0.494	ND	ND
Nitrobenzene	ND	0.891	ND	ND
N-Nitrosopiperidine	ND	0.729	ND	ND
Isophorone	ND	0.214	ND	ND
2,4-Dimethylphenol	ND	0.337	ND	ND
2-Nitrophenol	ND	0.536	ND	ND
bis(2-Chloroethoxy)methane	ND	0.391	ND	ND
Benzoic acid	ND	36.6	ND	ND
2,4-Dichlorophenol	ND	0.49	ND	ND
1,2,4-Trichlorobenzene	ND	0.353	ND	ND
Naphthalene	153	0.447	2.969E-02	2.969E-02
p-Chloroaniline	ND	0.322	ND	ND
2,6-Dichlorophenol	ND	0.344	ND	ND
Hexachloropropene	ND	0.565	ND	ND ND
Hexachlorobutadiene	ND	0.55	ND ND	ND
Dimethylphenethylamine	ND	20.4	ND ND	ND
N-Nitroso-di-n-butylamine	ND	0.374	ND	ND

TABLE F-3. AEC - RUN NO. 1-2 COMPOSITE FA TEST (28 MARCH 1998)
Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

		Run 1-2	D. 40%	_
	Run 1-2 Train B		Run 1-2 Train B -	Average
111	-Amount	Detection	Concentration,	Concentration -
Analyte	Detected, ug	Limit, ug	mg/m³	Run 1-2, mg/m³
4-Chloro-3-methylphenol	ND	0.567	ND	ND
Safrole	ND	0.711	ND	ND
2-Methylnaphthalene	65.9	0.359	1.279E-02	1.279E-02
1,2,4,5-Tetrachlorobenzene	ND	0.546	ND	ND
Hexachlorocyclopentadiene	ND	11.1	ND	ND
2,4,6-Trichlorophenol	ND	0.631	ND	ND
2,4,5-Trichlorophenol	ND	0.536	ND	ND
Isosafrole	ND	1.08	ND	ND
2-Chloronaphthalene	ND	0.564	ND	ND
2-Nitroaniline	ND	0.358	ND	ND
1,4-Naphthoquinone	ND	1	ND	ND
Dimethylphthalate	ND	0.291	ND	ND
1,3-Dinitrobenzene	ND	0.837	ND	ND
2,6-Dinitrotoluene	ND	0.704	ND	ND
Acenaphthylene	2.31	0.327	4.483E-04	4.483E-04
3-Nitroaniline	ND	0.881	ND	ND
4-Nitrophenol	ND	30.7	ND	ND
2,4-Dinitrophenol	ND	31.5	ND	ND
Acenaphthene	ND	0.36	ND	ND
2,4-Dinitrotoluene	ND	0.445	ND	ND
Dibenzofuran	ND	0.244	ND	ND
Pentachlorobenzene	ND	0.674	ND	ND
1-Naphthylamine	ND	1.76	ND	ND
2-Naphthylamine	ND	1.56	ND	ND
2,3,4,6-Tetrachlorophenol	ND	0.714	ND	ND
Diethylphthalate	0.387	0.26	7.510E-05	7.510E-05
4-Chlorophenylphenyl ether	ND	0.283	ND	ND
Fluorene	0.52	0.34	1.009E-04	1.009E-04
5-Nitro-o-toluidine	ND	0.363	ND	ND
4-Nitroaniline	ND	0.775	ND	ND
4,6-Dinitro-2-methylphenol	ND	27.2	ND	ND
Diphenylamine/N-NitrosoDPA	ND	0.368	ND	ND
sym-Trinitrobenzene	ND	1.25	ND	ND
Diallate	ND	0.475	ND	ND
Phenacetin	ND	0.224	ND	ND
4-Bromophenylphenyl ether	ND	0.689	ND	ND
Hexachlorobenzene	ND	0.371	ND	ND
4-Aminobiphenyl	ND	2.07	ND	ND
Pronamide	ND	0.257	ND	ND
Pentachlorophenol	ND	28.8	ND	ND
Pentachloronitrobenzene	ND	1.34	ND	ND

TABLE F-3. AEC - RUN NO. 1-2 COMPOSITE FA TEST (28 MARCH 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

Analyte	Run 1-2 Train B -Amount Detected, ug	Run 1-2 Train B - Detection Limit, ug	Run 1-2 Train B - Concentration, mg/m³	Average Concentration - Run 1-2, mg/m ³
Phenanthrene	1.48	0.61	2.872E-04	2.872E-04
Anthracene	ND	0.366	ND	ND
Carbazole	ND ·	0.245	ND	ND
Di-n-butylphthalate	1.65	0.17	3.202E-04	3.202E-04
4-Nitroquinoline-1-oxide	ND	22.5	ND	ND
Methapyrilene	ND	20.7	ND	ND
Fluoranthene	ND	0.361	ND	ND
Benzidine	ND	13.4	ND	ND
Pyrene	ND	0.496	ND	ND
p-Dimethylaminoazobenzene	ND	0.368	ND	ND
Chlorobenzilate	ND	0.512	ND	ND
Kepone	ND	18.8	ND	ND
Butylbenzylphthalate	ND	0.205	ND	ND
3,3'-Dimethylbenzidine	ND	1.98	ND	ND
2-Acetylaminofluorene	ND	0.312	ND	ND
bis(2-Ethylhexyl)phthalate	ND	1.22	ND	ND
3,3'-Dichlorobenzidine	ND	0.335	ND	ND
Benz(a)anthracene	ND	0.452	ND	ND
Chrysene	ND	0.488	ND	ND
Di-n-octylphthalate	ND	0.312	ND	ND
7,12-Dimethylbenz(a)anthracene	ND	0.461	ND	ND
Benzo(b)fluoranthene (a)	ND	0.278	ND	ND
Benzo(k)fluoranthene (a)	ND	0.581	ND	ND
Benz(a)pyrene	ND	0.329	ND	ND
3-Methylcholanthrene	ND	1.17	ND	ND
Indeno(1,2,3-cd)pyrene	ND	0.219	ND	ND
Dibenz(a,h)anthracene	ND	0.246	ND	ND
Benzo(g,h,i)perylene	ND	0.236	ND	ND

a
Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

TABLE F-4. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK
Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap
Compounds below the DLs are listed as nondetected (ND)
Analyzed by: Radian International LLC

	Background -	Background -	Background -	Reagent Blank -	Reagent Blank -	Field Blank -	Field Blank -
Analyte	Amount Detected, ug	Detection Limit, ug	Concentration, mg/m³	Amount Detected, ug	Detection Limit, ug	Amount Detected, ug	Detection Limit, ug
N-Nitrosodimethylamine	QN	0.348	QN	ND	0.348	QN	0.348
Pyridine	QN	1.02	Q	QN	1.02	ON	1.02
2-Picoline	QN	1.06	ON	ND	1.06	ON	1.06
Methyl methanesulfonate	ND	0.401	ON	ND	0.401	ON	0.401
N-Nitrosomethylethylamine	ND	0.796	ON	ND	962'0	QN	0.796
N-Nitrosodiethylamine	QN	0.85	ON	QN	0.85	QN	0.85
Ethyl methanesulfonate	ND	0.391	ND	ND	0.391	ND	0.391
Phenol	QN	0.25	ON	ON	0.25	ND	0.25
Aniline	QN	0.399	QN	QN.	0.399	QN	0.399
bis(2-Chloroethyl)ether	QN	0.312	ON	ND	0.312	QN	0.312
Pentachloroethane	QN	0.721	QN	ND	0.721	QN	0.721
2-Chlorophenol	ΟN	0.159	ON	QN	0.159	ND	0.159
1,3-Dichlorobenzene	QN	0.307	QN	DN	0:30	ND	0.307
1,4-Dichlorobenzene	QN	0.616	ON	DN	0.616	ND	0.616
Benzyl alcohol	QN	0.697	QN	ON	0.697	ON	0.697
2-Methylphenol	ON	0.561	QN	QN	0.561	QN	0.561
1,2-Dichlorobenzene	QN	0.446	QN	QN	0.446	QN	0.446
bis(2-Chloroisopropyl)ether	ND	0.376	QN	QN	0.376	ON	0.376
o-Toluidine	QN	0.396	ON	DN	0.396	QN	0.396
4-Methylphenol/3-Methylphenol	QN	0.474	QN	QN	0.474	QN	0.474
N-Nitroso-di-n-propylamine	ND	0.281	QN	DN	0.281	QN	0.281
Acetophenone	0.574	0.295	1.786E-04	0.578	0.295	QN	0.295
N-Nitrosomorpholine	ND	0.899	ON	QN	0.899	ND	0.899
N-Nitrosopyrrolidine	ND	1.19	QN	QN	1.19	ON	1.19
Hexachloroethane	ND	0.494	QN	ND	0.494	ON	0.494
Nitrobenzene	ND	0.891	QN	DN	0.891	QN	0.891
N-Nitrosopiperidine	ND	0.729	QN	DN	0.729	ON	0.729
Isophorone	QN	0.214	QN	QN	0.214	QN	0.214
2,4-Dimethylphenol	ND	0.337	ND	DN	0.337	QN	0.337
2-Nitrophenol	ON	0.536	QN	QN	0.536	Q	0.536
bis(2-Chloroethoxy)methane	ND	0.391	QN	QN	0.391	QN	0.391
Benzoic acid	QN	36.6	QN	ND	36.6	QN	36.6

TABLE F-4. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected

on filter and resin trap Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

Analyte	Background - Amount Detected, ug	Background - Detection Limit, ug	Background - Concentration, mg/m³	Reagent Blank - Amount Detected, ug	Reagent Blank - Detection Limit, ug	Field Blank - Amount Detected, ug	Field Blank - Detection Limit, ug
2.4-Dichlorophenol	QN	0.49	QN	ON	0.49	ND	0.49
1,2,4-Trichlorobenzene	QN	0.353	Q	ON	0.353	ND	0.353
Naphthalene	QN	0.447	ND	QN	0.447	QN	0.447
p-Chloroaniline	QN	0.322	QN	QN	0.322	QN	0.322
2,6-Dichlorophenol	Q	0.344	QN	QN	0.344	QN	0.344
Hexachloropropene	QN	0.565	Q	QN	995'0	QN	0.565
Hexachlorobutadiene	QN	0.51	QN	QN	0.51	QN	0.51
Dimethylphenethylamine	Q	20.4	Q	QN	20.4	QN	20.4
N-Nitroso-di-n-butylamine	QN	0.374	QN	ON	0.374	QN	0.374
4-Chloro-3-methylphenol	QN	0.567	QN	QN	0.567	QN	0.567
Safrole	QN	0.711	ND	ND	0.711	ΩN	0.711
2-Methylnaphthalene	QN	0.359	ND	ND	0.359	QN	0.359
1,2,4,5-Tetrachlorobenzene	QN	0.546	ND	ON	0.546	ND	0.546
Hexachlorocyclopentadiene	QN	11.1	ND	ND	11.1	Q	11.1
2,4,6-Trichlorophenol	QN	0.631	ND	ON	0.631	Q	0.631
2,4,5-Trichlorophenol	QN	0.536	ON	ND	0.536	QN	0.536
Isosafrole	QN	1.08	QN	ON	1.08	QN	1.08
2-Chloronaphthalene	QN	0.564	QN	ND	0.564	Q	0.564
2-Nitroaniline	QN,	0.358	QN	ON	0.358	ND	0.358
1,4-Naphthoquinone	QN	1	ND	ND	1.	QN	-
Dimethylphthalate	QΝ	0.291	ND	ON	0.291	Q	0.291
1,3-Dinitrobenzene	QN	0.837	QN	QN	0.837	QN	0.837
2,6-Dinitrotoluene	DN	0.704	ND	Q	0.704	QN	0.704
Acenaphthylene	QN	0.327	ΩΩ	QN	0.327	QN	0.327
3-Nitroaniline	QN	0.881	ND	ND	0.881	S	0.881
4-Nitrophenol	QN	30.7	DN	ON	30.7	ND	30.7
2,4-Dinitrophenol	Q	31.5	QN	QN	31.5	QN	31.5
Acenaphthene	QN	0.36	QN	QN	98'0	ON	0.36
2,4-Dinitrotoluene	Q	0.445	QN	QN	0.445	ON	0.445
Dibenzofuran	QΝ	0.244	ND	ND	0.244	Q	0.244
Pentachlorobenzene	QN	0.674	QN	QN	0.674	QN	0.674
1-Naphthylamine	QN	1.76	QN	QN	1.76	S	1.76

TABLE F-4. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK
Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap
Compounds below the DLs are listed as nondetected (ND)
Analyzed by: Radian International LLC

	Background -	Background -	Background -	Reagent Blank -	Reagent Blank -	Field Blank -	Field Blank -
	Amount	Detection Limit,	Concentration,	Amount	Detection Limit,	Amount	Detection Limit,
Analyte	Detected, ug	ng	mg/m³	Detected, ug	ng	Detected, ug	ng
[2-Naphthylamine	QN	1.56	ND	QN	1.56	QN	1.56
2,3,4,6-Tetrachlorophenol	QN	0.714	ND	QN	0.714	ND	0.714
Diethylphthalate	0.722	0.26	2.247E-04	QN	0.26	QN	0.26
4-Chlorophenylphenyl ether	QN	0.283	ND	QN	0.283	QN	0.283
Fluorene	QN	0.34	ND	QN	0.34	QN	0.34
5-Nitro-o-toluidine	QN	0.363	QN	QN	0.363	QN	0.363
4-Nitroaniline	DN	0.775	QN	QN	0.775	QN	0.775
4,6-Dinitro-2-methylphenol	QN	27.2	ON	QN	27.2	QN	27.2
Diphenylamine/N-NitrosoDPA	QN	0.368	ND	QN	0.368	QN	0.368
sym-Trinitrobenzene	QN	1.25	ON	QN	1.25	QN	1.25
Diallate	QN	0.475	ND	QN	0.475	ON	0.475
Phenacetin	DN	0.224	ND	ON	0.224	ON	0.224
4-Bromophenylphenyl ether	QN	0.689	ON	QN	689'0	QN	0.689
Hexachlorobenzene	QN	0.371	QN	QN	0.371	QN	0.371
4-Aminobiphenyl	QN	2.07	ON	QN	2.07	QN	2.07
Pronamide	QN	0.257	QN	QN	0.257	ND	0.257
Pentachlorophenol	QN	28.8	ND	QN	28.8	QN	28.8
Pentachloronitrobenzene	ND	1.34	ND	QN	1.34	QN	1.34
Phenanthrene	QN	0.61	QN	QN	0.61	QN	0.61
Anthracene	QN	0.366	QN	ON	0.366	QN	0.366
Carbazole	QN	0.245	ON	ON	0.245	QN	0.245
Di-n-butylphthalate	5.19	0.17	1.615E-03	5.39	0.17	2.93	0.17
4-Nitroquinoline-1-oxide	QN	22.5	Q	Q	22.5	QN	22.5
Methapyrilene	Q	20.7	QN	QN	20.7	QN	20.7
Fluoranthene	Q	0.361	Q	QN	0.361	QN	0.361
Benzidine	QN	13.4	QN	QN	13.4	ON	13.4
Pyrene	QN	0.496	DN	DN	0.496	QN	0.496
p-Dimethylaminoazobenzene	Q	0.368	ND	ND	0.368	ND	0.368
Chlorobenzilate	QN	0.512	ON	QN	0.512	QN	0.512
Kepone	Q	18.8	QN	QN	18.8	QN	18.8
Butylbenzylphthalate	Q	0.205	Q	Q	0.205	0.514	0.205
3,3'-Dimethylbenzidine	QN	1.98	QN	QN	1.98	QN	1.98
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TABLE F-4. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected

on filter and resin trap Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

- Analyte Lete	Background - Amount Detected, ug	Background - Detection Limit, ug	Background - Concentration, mg/m³	Reagent Blank - Amount Detected, ug	Reagent Blank - Detection Limit, ug	Field Blank - Amount Detected, ug	Field Blank - Detection Limit, ug
2-Acetylaminofluorene	ON	0.312	QN	ND	0.312	ND	0.312
bis(2-Ethylhexyl)phthalate	Q.	1.22	QN	QN	1.22	2.56	1.22
3,3'-Dichlorobenzidine	Q	0.335	QN	ON	0.335	ND	0.335
Benz(a)anthracene	QN	0.452	ND	ON	0.452	ND	0.452
Chrysene	QN	0.488	ON	ON	0.488	ND	0.488
Di-n-octylphthalate	QN	0.312	QN	QN	0.312	ND	0.312
7,12-Dimethylbenz(a)anthracene	QN	0.461	QN	ON	0.461	DN	0.461
Benzo(b)fluoranthene (a)	Q.	0.278	QN	ON	0.278	ND	0.278
Benzo(k)fluoranthene (a)	QN	0.581	ND	QN	0.581	ND	0.581
Benz(a)pyrene	ΩN	0.329	QN	QN	0.329	QN	0.329
3-Methylcholanthrene	QN	1.17	ND	QN	1.17	ND	1.17
Indeno(1,2,3-cd)pyrene	QN	0.219	ND	QN	0.219	ND	0.219
Dibenz(a,h)anthracene	QN	0.246	QN	QN	0.246	ND	0.246
Benzo(g,h,i)perylene	DN	0.236	ND	QN	0.236	QN	0.236

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

TABLE F-5. AEC - RUN NO. 1-2 FA TEST (28 MARCH 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

Analyte	11	Run 2 Train A -Detection Limit, ug	Run 1-2 Train B - Detection Limit, ug	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
N-Nitrosodimethylamine	0.348	0.348	0.348	1.228E-04	1.228E-04
Pyridine	1.02	1.02	1.02	3.599E-04	3.599E-04
2-Picoline	1.06	1.06	1.06	3.740E-04	3.740E-04
Methyl methanesulfonate	0.401	0.401	0.401	1.415E-04	1.415E-04
N-Nitrosomethylethylamine	0.796	0.796	0.796	2.809E-04	2.809E-04
N-Nitrosodiethylamine	0.85	0.750	0.750	2.999E-04	2.999E-04
Ethyl methanesulfonate	0.391	0.391	0.391	1.380E-04	1.380E-04
Phenol	0.25	0.25	0.25	8.821E-05	8.821E-05
Aniline	0.399	0.399	0.399	1.408E-04	1.408E-04
bis(2-Chloroethyl)ether	0.312	0.312	0.312	1.101E-04	1.101E-04
Pentachloroethane	0.721	0.721	0.721	2.544E-04	2.544E-04
2-Chlorophenol	0.159	0.159	0.159	5.610E-05	5.610E-05
1,3-Dichlorobenzene	0.307	0.307	0.307	1.083E-04	1.083E-04
1,4-Dichlorobenzene	0.616	0.616	0.616	2.173E-04	2.173E-04
Benzyl alcohol	0.697	0.697	0.697	2.459E-04	2.459E-04
2-Methylphenol	0.561	0.561	0.561	1.979E-04	1.979E-04
1,2-Dichlorobenzene	0.446	0.446	0.446	1.574E-04	1.574E-04
bis(2-Chloroisopropyl)ether	0.376	0.376	0.376	1.327E-04	1.327E-04
o-Toluidine	0.396	0.396	0.396	1.397E-04	1.397E-04
4-Methylphenol/3-Methylphenol	0.474	0.474	0.474	1.672E-04	1.672E-04
N-Nitroso-di-n-propylamine	0.281	0.281	0.281	9.915E-05	9.915E-05
Acetophenone	0.295	0.295	0.295	1.041E-04	1.041E-04
N-Nitrosomorpholine	0.899	0.899	0.899	3.172E-04	3.172E-04
N-Nitrosopyrrolidine	1.19	1.19	1.19	4.199E-04	4.199E-04
Hexachloroethane	0.494	0.494	0.494	1.743E-04	1.743E-04
Nitrobenzene	0.891	0.891	0.891	3.144E-04	3.144E-04
N-Nitrosopiperidine	0.729	0.729	0.729	2.572E-04	2.572E-04
Isophorone	0.214	0.214	0.214	7.551E-05	7.551E-05
2,4-Dimethylphenol	0.337	0.337	0.337	1.189E-04	1.189E-04
2-Nitrophenol	0.536	0.536	0.536	1.891E-04	1.891E-04
bis(2-Chloroethoxy)methane	0.391	0.391	0.391	1.380E-04	1.380E-04
Benzoic acid	36.6	36.6	36.6	1.291E-02	1.291E-02
2,4-Dichlorophenol	0.49	0.49	0.49	1.729E-04	1.729E-04
1,2,4-Trichlorobenzene	0.353	0.353	0.353	1.246E-04	1.246E-04
Naphthalene	0.447	0.447	0.447	1.577E-04	1.577E-04
p-Chloroaniline	0.322	0.322	0.322	1.136E-04	1.136E-04
2,6-Dichlorophenol	0.344	0.344	0.344	1.214E-04	1.214E-04
Hexachloropropene	0.565	0.565	0.565	1.994E-04	1.994E-04
Hexachlorobutadiene	0.51	0.51	0.51	1.799E-04	1.799E-04
Dimethylphenethylamine	20.4	20.4	20.4	7.198E-03	7.198E-03

TABLE F-5. AEC - RUN NO. 1-2 FA TEST (28 MARCH 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

Analyte	PECO, III anticocio, il anticocio di unicocio di la processioni di	Run 2 Train A -Detection Limit, ug	S85885000000000000000000000000000000000	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
N-Nitroso-di-n-butylamine	0.374	0.374	0.374	1.320E-04	1.320E-04
4-Chloro-3-methylphenol	0.567	0.567	0.567	2.001E-04	2.001E-04
Safrole	0.711	0.711	0.711 .	2.509E-04	2.509E-04
2-Methylnaphthalene	0.359	0.359	0.359	1.267E-04	1.267E-04
1,2,4,5-Tetrachlorobenzene	0.546	0.546	0.546	1.926E-04	1.926E-04
Hexachlorocyclopentadiene	11.1	11.1	11.1	3.916E-03	3.916E-03
2,4,6-Trichlorophenol	0.631	0.631	0.631	2.226E-04	2.226E-04
2,4,5-Trichlorophenol	0.536	0.536	0.536	1.891E-04	1.891E-04
Isosafrole	1.08	1.08	1.08	3.811E-04	3.811E-04
2-Chloronaphthalene	0.564	0.564	0.564	1.990E-04	1.990E-04
2-Nitroaniline	0.358	0.358	0.358	1.263E-04	1.263E-04
1,4-Naphthoquinone	1	1	1	3.528E-04	3.528E-04
Dimethylphthalate	0.291	0.291	0.291	1.027E-04	1.027E-04
1,3-Dinitrobenzene	0.837	0.837	0.837	2.953E-04	2.953E-04
2,6-Dinitrotoluene	0.704	0.704	0.704	2.484E-04	2.484E-04
Acenaphthylene	0.327	0.327	0.327	1.154E-04	1.154E-04
3-Nitroaniline	0.881	0.881	0.881	3.108E-04	3.108E-04
4-Nitrophenol	30.7	30.7	30.7	1.083E-02	1.083E-02
2,4-Dinitrophenol	31.5	31.5	31.5	1.111E-02	1.111E-02
Acenaphthene	0.36	0.36	0.36	1.270E-04	1.270E-04
2,4-Dinitrotoluene	0.445	0.445	0.445	1.570E-04	1.570E-04
Dibenzofuran	0.244	0.244	0.244	8.609E-05	8.609E-05
Pentachlorobenzene	0.674	0.674	0.674	2.378E-04	2.378E-04
1-Naphthylamine	1.76	1.76	1.76	6.210E-04	6.210E-04
2-Naphthylamine	1.56	1.56	1.56	5.504E-04	5.504E-04
2,3,4,6-Tetrachlorophenol	0.714	0.714	0.714	2.519E-04	2.519E-04
Diethylphthalate	0.26	0.26	0.26	9.174E-05	9.174E-05
4-Chlorophenylphenyl ether	0.283	0.283	0.283	9.985E-05	9.985E-05
Fluorene	0.34	0.34	0.34	1.200E-04	1.200E-04
5-Nitro-o-toluidine	0.363	0.363	0.363	1.281E-04	1.281E-04
4-Nitroaniline	0.775	0.775	0.775	2.734E-04	2.734E-04
4,6-Dinitro-2-methylphenol	27.2	27.2	27.2	9.597E-03	9.597E-03
Diphenylamine/N-NitrosoDPA	0.368	0.368	0.368	1.298E-04	1.298E-04
sym-Trinitrobenzene	1.25	1.25	1.25	4.410E-04	4.410E-04
Diallate	0.475	0.475	0.475	1.676E-04	1.676E-04
Phenacetin	0.224	0.224	0.224	7.904E-05	7.904E-05
4-Bromophenylphenyl ether	0.689	0.689	0.689	2.431E-04	2.431E-04
Hexachlorobenzene	0.371	0.371	0.371	1.309E-04	1.309E-04
4-Aminobiphenyl	2.07	2.07	2.07	7.304E-04	7.304E-04
Pronamide	0.257	0.257	0.257	9.068E-05	9.068E-05

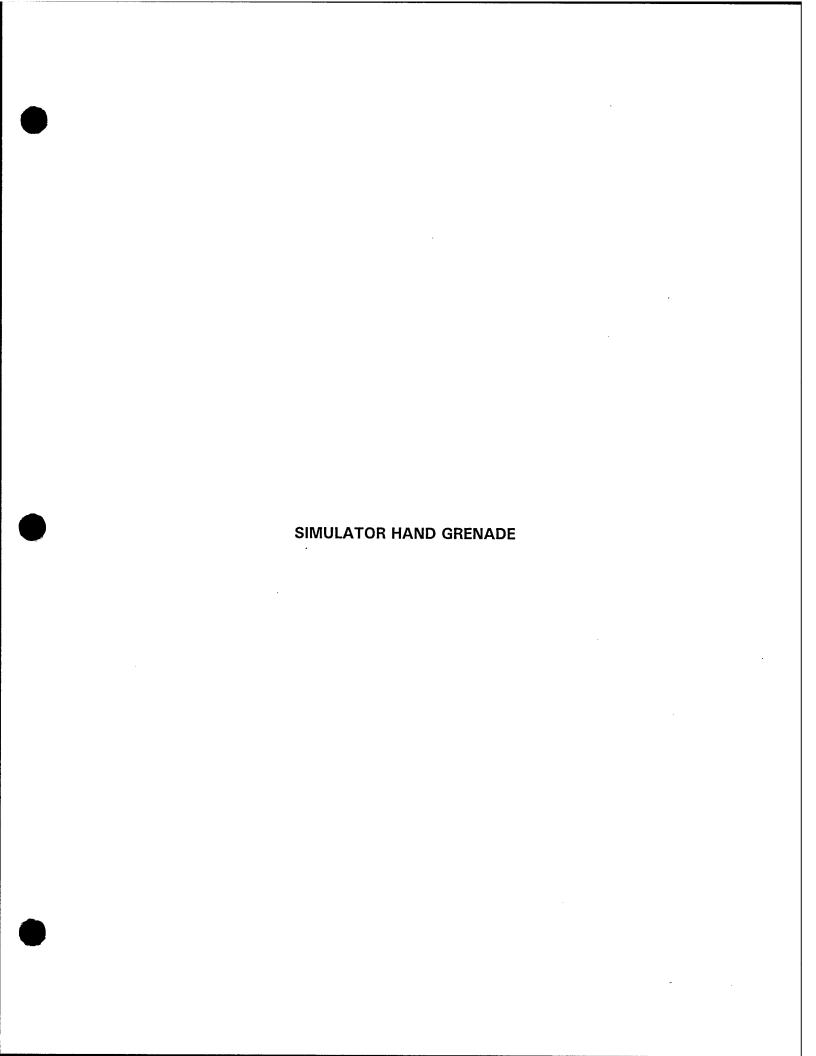
TABLE F-5. AEC - RUN NO. 1-2 FA TEST (28 MARCH 1998)

Compounds below the DLs are listed as nondetected (ND)

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Analyte	18	Run 2 Train A -Detection Limit, ug	Run 1-2 Train B - Detection Limit, ug	Average Maximum Detection Limit - Concentration, mg/m ³	Average Minimum Detection Limit - Concentration, mg/m ³
Pentachlorophenol	28.8	28.8	28.8	1.016E-02	1.016E-02
Pentachloronitrobenzene	1.34	1.34	1.34	4.728E-04	4.728E-04
Phenanthrene	0.61	0.61	0.61	2.152E-04	2.152E-04
Anthracene	0.366	0.366	0.366	1.291E-04	1.291E-04
Carbazole	0.245	0.245	0.245	8.644E-05	8.644E-05
Di-n-butylphthalate	0.17	0.17	0.17	5.998E-05	5.998E-05
4-Nitroquinoline-1-oxide	22.5	22.5	22.5	7.939E-03	7.939E-03
Methapyrilene	20.7	20.7	20.7	7.304E-03	7.304E-03
Fluoranthene	0.361	0.361	0.361	1.274E-04	1.274E-04
Benzidine	13.4	13.4	13.4	4.728E-03	4.728E-03
Pyrene	0.496	0.496	0.496	1.750E-04	1.750E-04
p-Dimethylaminoazobenzene	0.368	0.368	0.368	1.298E-04	1.298E-04
Chlorobenzilate	0.512	0.512	0.512	1.807E-04	1.807E-04
Kepone	18.8	18.8	18.8	6.633E-03	6.633E-03
Butylbenzylphthalate	0.205	0.205	0.205	7.233E-05	7.233E-05
3,3'-Dimethylbenzidine	1.98	1.98	1.98	6.986E-04	6.986E-04
2-Acetylaminofluorene	0.312	0.312	0.312	1.101E-04	1.101E-04
bis(2-Ethylhexyl)phthalate	1.22	1.22	1.22	4.305E-04	4.305E-04
3,3'-Dichlorobenzidine	0.335	0.335	0.335	1.182E-04	1.182E-04
Benz(a)anthracene	0.452	0.452	0.452	1.595E-04	1.595E-04
Chrysene	0.488	0.488	0.488	1.722E-04	1.722E-04
Di-n-octylphthalate	0.312	0.312	0.312	1.101E-04	1.101E-04
7,12-Dimethylbenz(a)anthracene	0.461	0.461	0.461	1.627E-04	1.627E-04
Benzo(b)fluoranthene (a)	0.278	0.278	0.278	9.809E-05	9.809E-05
Benzo(k)fluoranthene (a)	0.581	0.581	0.581	2.050E-04	2.050E-04
Benz(a)pyrene	0.329	0.329	0.329	1.161E-04	1.161E-04
3-Methylcholanthrene	1.17	1.17	1.17	4.128E-04	4.128E-04
Indeno(1,2,3-cd)pyrene	0.219	0.219	0.219	7.727E-05	7.727E-05
Dibenz(a,h)anthracene	0.246	0.246	0.246	8.680E-05	8.680E-05
Benzo(g,h,i)perylene	0.236	0.236	0.236	8.327E-05	8.327E-05

a

Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.



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TABLE F-1. AEC - RUN NO. 1 HG TEST (30 MARCH 1998)
Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

Analyte	Run 1 Train A - Amount Detected, ug	Run 1 Train A -Detection Limit, ug	Run 1 Train A - Concentration, mg/m³	Average Concentration - Run 1, mg/m ³
N-Nitrosodimethylamine	ND	0.348	ND	ND
Pyridine	ND	1.02	ND	ND
2-Picoline	ND	1.06	ND	ND
Methyl methanesulfonate	ND	0.401	ND	ND
N-Nitrosomethylethylamine	ND	0.796	ND	ND
N-Nitrosodiethylamine	ND	0.85	ND	ND
Ethyl methanesulfonate	ND	0.391	ND	ND
Phenol	ND	0.25	ND	ND
Aniline	ND	0.399	ND	ND
bis(2-Chloroethyl)ether	ND	0.312	ND	ND
Pentachloroethane	ND	0.721	ND	ND
2-Chlorophenol	ND	0.159	ND	ND
1,3-Dichlorobenzene	ND	0.307	ND	ND
1,4-Dichlorobenzene	ND	0.616	ND	ND
Benzyl alcohol	ND	0.697	ND	ND
2-Methylphenol	ND	0.561	ND	ND
1,2-Dichlorobenzene	ND	0.446	ND	ND
bis(2-Chloroisopropyl)ether	ND	0.376	ND	ND
o-Toluidine	ND	0.396	ND	ND
4-Methylphenol/3-Methylphenol	ND	0.474	ND	ND
N-Nitroso-di-n-propylamine	ND	0.281	ND	ND
Acetophenone	0.855	0.295	5.368E-04	5.368E-04
N-Nitrosomorpholine	ND	0.899	ND	ND
N-Nitrosopyrrolidine	ND	1.19	ND	ND
Hexachloroethane	ND	0.494	ND	ND
Nitrobenzene	ND	0.891	ND	ND
N-Nitrosopiperidine	ND	0.729	ND	ND
Isophorone	ND	0.214	ND	ND
2,4-Dimethylphenol	ND	0.337	ND	ND
2-Nitrophenol	ND	0.536	ND	ND
bis(2-Chloroethoxy)methane	ND	0.391	ND	ND
Benzoic acid	ND	36.6	ND	ND
2,4-Dichlorophenol	ND	0.49	ND	ND
1,2,4-Trichlorobenzene	ND	0.353	ND	ND
Naphthalene	0.686	0.447	4.307E-04	4.307E-04
p-Chloroaniline	ND	0.322	ND	ND
2,6-Dichlorophenol	ND	0.344	ND	ND
Hexachloropropene	ND	0.565	ND	ND
Hexachlorobutadiene	ND	0.51	ND	ND
Dimethylphenethylamine	ND	20.4	ND	ND .
N-Nitroso-di-n-butylamine	ND	0.374	ND	ND

TABLE F-1. AEC - RUN NO. 1 HG TEST (30 MARCH 1998)

Compounds below the DLs are listed as nondetected (ND)

Analyte	Run 1 Train A - Amount Detected, ug	A -Detection Limit, ug	Run 1 Train A - Concentration, mg/m³	Average Concentration - Run 1, mg/m³
4-Chloro-3-methylphenol	ND	0.567	ND	ND
Safrole	ND	0.711	ND	ND
2-Methylnaphthalene	ND	0.359	ND	ND
1,2,4,5-Tetrachlorobenzene	ND	0.546	ND	ND
Hexachlorocyclopentadiene	ND	11.1	ND	ND
2,4,6-Trichlorophenol	ND	0.631	ND	ND
2,4,5-Trichlorophenol	ND	0.536	ND	ND
Isosafrole	ND	1.08	ND	ND
2-Chloronaphthalene	ND	0.564	ND	ND
2-Nitroaniline	ND	0.358	ND	ND
1,4-Naphthoquinone	ND	1	ND	ND
Dimethylphthalate	ND	0.291	ND	ND
1,3-Dinitrobenzene	ND	0.837	ND	ND
2,6-Dinitrotoluene	ND	0.704	ND	ND
Acenaphthylene	ND	0.327	ND	ND
3-Nitroaniline	ND	0.881	ND	ND
4-Nitrophenol	ND	30.7	ND	ND
2,4-Dinitrophenol	ND	31.5	ND	ND
Acenaphthene	ND	0.36	ND	ND
2,4-Dinitrotoluene	ND	0.445	ND	ND
Dibenzofuran	ND	0.244	ND	ND
Pentachlorobenzene	ND	0.674	ND	ND
1-Naphthylamine	ND	1.76	ND	ND
2-Naphthylamine	ND	1.56	ND	ND
2,3,4,6-Tetrachlorophenol	ND	0.714	ND	ND
Diethylphthalate	ND	0.26	ND	ND
4-Chlorophenylphenyl ether	ND	0.283	ND	ND
Fluorene	ND	0.34	ND	ND
5-Nitro-o-toluidine	ND	0.363	ND	ND
4-Nitroaniline	ND	0.775	ND	ND
4,6-Dinitro-2-methylphenol	ND	27.2	ND	ND
Diphenylamine/N-NitrosoDPA	ND	0.368	ND	ND
sym-Trinitrobenzene	ND	1.25	ND	ND
Diallate	ND	0.475	ND	ND
Phenacetin	ND	0.224	ND	ND
4-Bromophenylphenyl ether	ND	0.689	ND	ND
Hexachlorobenzene	ND	0.371	ND	ND
4-Aminobiphenyl	ND	2.07	ND	ND
Pronamide	ND	0.257	ND	ND
Pentachlorophenol	ND	28.8	ND	ND
Pentachloronitrobenzene	ND	1.34	ND	ND

TABLE F-1. AEC - RUN NO. 1 HG TEST (30 MARCH 1998)

Compounds below the DLs are listed as nondetected (ND)

particular designation of the control of the contro	Run 1 Train A - Amount Detected, ug	Run 1 Train A -Detection Limit, ug	Run 1 Train A - Concentration, mg/m³	Average Concentration - Run 1, mg/m ³
Phenanthrene	ND	0.61	ND	ND
Anthracene	ND	0.366	ND	ND
Carbazole	ND	0.245	ND	ND
Di-n-butylphthalate	1.67	0.17	1.048E-03	1.048E-03
4-Nitroquinoline-1-oxide	ND	22.5	ND	ND
Methapyrilene	ND	20.7	ND	ND
Fluoranthene	ND	0.361	ND	ND
Benzidine	ND	13.4	ND	ND
Pyrene	ND	0.496	ND	ND
p-Dimethylaminoazobenzene	ND	0.368	ND	ND
Chlorobenzilate	ND	0.512	ND	ND
Kepone	ND	18.8	ND	ND
Butylbenzylphthalate	1.61	0.205	1.011E-03	1.011E-03
3,3'-Dimethylbenzidine	ND	1.98	ND	ND
2-Acetylaminofluorene	ND	0.312	ND	ND
bis(2-Ethylhexyl)phthalate	ND	1.22	ND	ND
3,3'-Dichlorobenzidine	ND	0.335	ND	ND
Benz(a)anthracene	ND	0.452	ND	ND
Chrysene	ND	0.488	ND	ND
Di-n-octylphthalate	ND	0.312	ND	ND
7,12-Dimethylbenz(a)anthracene	ND	0.461	ND	ND
Benzo(b)fluoranthene (a)	ND	0.278	ND	ND
Benzo(k)fluoranthene (a)	ND	0.581	ND	ND
Benz(a)pyrene	ND	0.329	ND	ND
3-Methylcholanthrene	ND	1.17	ND	ND
Indeno(1,2,3-cd)pyrene	ND	0.219	ND	ND
Dibenz(a,h)anthracene	ND	0.246	ND	ND
Benzo(g,h,i)perylene	ND	0.236	ND	ND

a
Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

TABLE F-2. AEC - RUN NO. 2 HG TEST (30 MARCH 1998)

Compounds below the DLs are listed as nondetected (ND)

	Run 2 Train A -	Run 2 Train	Run 2 Train A -	Average
	Amount	A -Detection		Concentration -
Analyte	Detected, ug	Limit, ug	mg/m³	Run 2, mg/m³
N-Nitrosodimethylamine	ND ND	0.348	ND ND	ND ND
Pyridine	ND	1.02	ND	ND
2-Picoline	ND	1.06	ND	ND
Methyl methanesulfonate	ND	0.401	ND	ND
N-Nitrosomethylethylamine	ND	0.796	ND	ND
N-Nitrosodiethylamine	ND	0.85	ND	ND
Ethyl methanesulfonate	ND	0.391	ND	ND
Phenol	ND	0.25	ND	ND
Aniline	ND	0.399	ND	ND
bis(2-Chloroethyl)ether	ND	0.312	ND	ND
Pentachloroethane	ND	0.721	ND	ND
2-Chlorophenol	ND	0.159	ND	ND
1,3-Dichlorobenzene	ND	0.307	ND	ND
1,4-Dichlorobenzene	ND	0.616	ND	ND
Benzyl alcohol	ND	0.697	ND	ND
2-Methylphenol	ND	0.561	ND	ND
1,2-Dichlorobenzene	ND	0.446	ND	ND
bis(2-Chloroisopropyl)ether	ND	0.376	ND	ND
o-Toluidine	ND	0.396	ND	ND
4-Methylphenol/3-Methylphenol	ND	0.474	ND	ND
N-Nitroso-di-n-propylamine	ND	0.281	ND	ND
Acetophenone	0.801	0.295	6.871E-04	6.871E-04
N-Nitrosomorpholine	ND	0.899	ND	ND
N-Nitrosopyrrolidine	ND	1.19	ND	ND
Hexachloroethane	ND	0.494	ND	ND
Nitrobenzene	ND	0.891	ND	ND
N-Nitrosopiperidine	ND	0.729	ND	ND
Isophorone	ND	0.214	ND	ND
2,4-Dimethylphenol	ND	0.337	ND	ND
2-Nitrophenol	ND	0.536	ND	ND
bis(2-Chloroethoxy)methane	ND	0.391	ND	ND
Benzoic acid	ND	36.6	ND	ND
2,4-Dichlorophenol	ND	0.49	ND	ND
1,2,4-Trichlorobenzene	ND	0.353	ND	ND
Naphthalene	0.808	0.447	6.931E-04	6.931E-04
p-Chloroaniline	ND	0.322	ND	ND
2,6-Dichlorophenol	ND	0.344	ND	ND
Hexachloropropene	ND	0.565	ND	ND
Hexachlorobutadiene	ND	0.51	ND	ND
Dimethylphenethylamine	ND	20.4	ND	ND
N-Nitroso-di-n-butylamine	ND	0.374	ND .	ND

TABLE F-2. AEC - RUN NO. 2 HG TEST (30 MARCH 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

4-Chloro-3-methylphenol ND 0.567 ND ND Safrole ND 0.711 ND ND 2-Methylnaphthalene ND 0.359 ND ND 1,2,4,5-Tetrachlorobenzene ND 0.546 ND ND Hexachlorocyclopentadiene ND 11.1 ND ND 2,4,6-Trichlorophenol ND 0.631 ND ND 2,4,5-Trichlorophenol ND 0.536 ND ND Isosafrole ND 1.08 ND ND 2-Chloronaphthalene ND 0.564 ND ND 2-Nitroaniline ND 0.358 ND ND 1,4-Naphthoquinone ND 1 ND ND 1,4-Naphthoquinone ND 0.291 ND ND 1,3-Dinitrobenzene ND 0.837 ND ND 2,6-Dinitrotoluene ND 0.704 ND ND Acenaphthylene ND 0.881 ND <	e ion - /m³
Safrole ND 0.711 ND ND 2-Methylnaphthalene ND 0.359 ND ND 1,2,4,5-Tetrachlorobenzene ND 0.546 ND ND Hexachlorocyclopentadiene ND 11.1 ND ND 2,4,6-Trichlorophenol ND 0.631 ND ND 2,4,5-Trichlorophenol ND 0.536 ND ND Isosafrole ND 1.08 ND ND 2-Chloronaphthalene ND 0.564 ND ND 2-Nitroaniline ND 0.358 ND ND 1,4-Naphthoquinone ND 1 ND ND Dimethylphthalate ND 0.291 ND ND 1,3-Dinitrobenzene ND 0.837 ND ND 2,6-Dinitrotoluene ND 0.704 ND ND Acenaphthylene ND 0.327 ND ND	
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4-Nitrophenol ND 30.7 ND ND	
2,4-Dinitrophenol ND 31.5 ND ND	
Acenaphthene ND 0.36 ND ND	
2,4-Dinitrotoluene ND 0.445 ND ND	
Dibenzofuran ND 0.244 ND ND	
Pentachlorobenzene ND 0.674 ND ND	
1-Naphthylamine ND 1.76 ND ND	
2-Naphthylamine ND 1.56 ND ND	
2,3,4,6-Tetrachlorophenol ND 0.714 ND ND	
Diethylphthalate ND 0.26 ND ND	
4-Chlorophenylphenyl ether ND 0.283 ND ND	
Fluorene ND 0.34 ND ND	
5-Nitro-o-toluidine ND 0.363 ND ND	
4-Nitroaniline ND 0.775 ND ND	
4,6-Dinitro-2-methylphenol ND 27.2 ND ND	
Diphenylamine/N-NitrosoDPA ND 0.368 ND ND	
sym-Trinitrobenzene ND 1.25 ND ND	
Diallate ND 0.475 ND ND	
Phenacetin ND 0.224 ND ND	
4-Bromophenylphenyl ether ND 0.689 ND ND	
Hexachlorobenzene ND 0.371 ND ND	
4-Aminobiphenyl ND 2.07 ND ND	
Pronamide ND 0.257 ND ND	
Pentachlorophenol ND 28.8 ND ND	
Pentachloronitrobenzene ND 1.34 ND ND	

TABLE F-2. AEC - RUN NO. 2 HG TEST (30 MARCH 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

Analyte	Run 2 Train A - Amount Detected, ug	Run 2 Train A -Detection Limit, ug	Run 2 Train A - Concentration, mg/m³	Average Concentration - Run 2, mg/m³
Phenanthrene	ND	0.61	ND	ND
Anthracene	ND	0.366	ND	ND
Carbazole	ND	0.245	ND	ND
Di-n-butylphthalate	6.29	0.17	5.395E-03	5.395E-03
4-Nitroquinoline-1-oxide	ND	22.5	ND	ND
Methapyrilene	ND	20.7	ND	ND
Fluoranthene	ND	0.361	ND	ND
Benzidine	ND	13.4	ND	ND
Pyrene	ND	0.496	ND	ND
p-Dimethylaminoazobenzene	ND	0.368	ND	ND
Chlorobenzilate	ND	0.512	ND	ND
Kepone	ND	18.8	ND	ND
Butylbenzylphthalate	2.17	0.205	1.861E-03	1.861E-03
3,3'-Dimethylbenzidine	ND	1.98	ND	ND
2-Acetylaminofluorene	ND	0.312	ND	ND
bis(2-Ethylhexyl)phthalate	1.3	1.22	1.115E-03	1.115E-03
3,3'-Dichlorobenzidine	ND	0.335	ND	ND
Benz(a)anthracene	ND	0.452	ND	ND
Chrysene	ND	0.488	ND	ND
Di-n-octylphthalate	ND	0.312	ND	ND
7,12-Dimethylbenz(a)anthracene	ND	0.461	ND	ND
Benzo(b)fluoranthene (a)	ND	0.278	ND	ND
Benzo(k)fluoranthene (a)	ND	0.581	ND	ND
Benz(a)pyrene	ND	0.329	ND	ND
3-Methylcholanthrene	ND	1.17	ND	ND
Indeno(1,2,3-cd)pyrene	ND	0.219	ND	ND
Dibenz(a,h)anthracene	ND	0.246	ND	ND
Benzo(g,h,i)perylene	ND	0.236	ND	ND

a

Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

TABLE F-3. AEC - RUN NO. 1-2 COMPOSITE HG TEST (30 MARCH 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

Analyte	Run 1-2 Train B -Amount Detected, ug	Run 1-2 Train B - Detection Limit, ug	Run 1-2 Train B - Concentration, mg/m ³	Average Concentration - Run 1-2, mg/m ³
N-Nitrosodimethylamine	ND	0.348	ND	ND
Pyridine	ND ND	1.02	ND	ND
2-Picoline	ND	1.06	ND	ND
Methyl methanesulfonate	ND	0.401	ND	ND
N-Nitrosomethylethylamine	ND ND	0.796	ND	ND
N-Nitrosodiethylamine	ND ND	0.85	ND	ND
Ethyl methanesulfonate	ND ND	0.391	ND ND	ND ND
Phenol	ND ND	0.25	ND ND	ND ND
Aniline	ND ND	0.399	ND ND	ND ND
bis(2-Chloroethyl)ether	ND ND	0.312	ND ND	ND ND
Pentachloroethane	ND ND	0.721	ND ND	ND
2-Chlorophenol	ND ND	0.159	ND ND	ND ND
1,3-Dichlorobenzene	ND ND	0.139	ND ND	ND ND
1,4-Dichlorobenzene	ND ND	0.616	ND ND	ND
A CONTRACTOR OF THE CONTRACTOR	ND ND		<u> </u>	
Benzyl alcohol		0.697	ND ND	ND ND
2-Methylphenol	ND	0.561	ND ND	ND
1,2-Dichlorobenzene	ND	0.446	ND	ND
bis(2-Chloroisopropyl)ether	ND	0.376	ND	ND
o-Toluidine	ND	0.396	ND	ND
4-Methylphenol/3-Methylphenol	ND	0.474	ND	ND
N-Nitroso-di-n-propylamine	ND	0.281	ND	ND
Acetophenone	1.55	0.295	6.387E-04	6.387E-04
N-Nitrosomorpholine	ND	0.899	ND	ND
N-Nitrosopyrrolidine	ND	1.19	ND	ND
Hexachloroethane	ND	0.494	ND	ND
Nitrobenzene	ND	0.891	ND	ND
N-Nitrosopiperidine	ND	0.729	ND	ND
Isophorone	ND	0.214	ND	ND
2,4-Dimethylphenol	ND	0.337	ND	ND
2-Nitrophenol	ND	0.536	ND	ND
bis(2-Chloroethoxy)methane	ND	0.391	ND	ND
Benzoic acid	ND	36.6	ND	ND
2,4-Dichlorophenol	ND	0.49	ND	ND
1,2,4-Trichlorobenzene	ND	0.353	ND	ND
Naphthalene	1.73	0.447	7.129E-04	7.129E-04
p-Chloroaniline	ND	0.322	ND	ND
2,6-Dichlorophenol	ND	0.344	ND	ND
Hexachloropropene	ND	0.565	ND	ND
Hexachlorobutadiene	ND	0.51	ND ND	ND
Dimethylphenethylamine	ND	20.4	ND ND	ND
N-Nitroso-di-n-butylamine	ND	0.374	ND ND	ND

TABLE F-3. AEC - RUN NO. 1-2 COMPOSITE HG TEST (30 MARCH 1998)

Compounds below the DLs are listed as nondetected (ND)

Analyte	Run 1-2 Train B -Amount Detected, ug	Run 1-2 Train B - Detection Limit, ug	Run 1-2 Train B - Concentration, mg/m³	Average Concentration - Run 1-2, mg/m ³
4-Chloro-3-methylphenol	ND	0.567	ND	ND
Safrole	ND	0.711	ND	ND
2-Methylnaphthalene	0.614	0.359	2.530E-04	2.530E-04
1,2,4,5-Tetrachlorobenzene	ND	0.546	ND	ND
Hexachlorocyclopentadiene	ND	11.1	ND	ND
2,4,6-Trichlorophenol	ND	0.631	ND	ND
2,4,5-Trichlorophenol	ND	0.536	ND	ND
Isosafrole	ND	1.08	ND	ND
2-Chloronaphthalene	ND	0.564	ND	ND
2-Nitroaniline	ND	0.358	ND	ND
1,4-Naphthoquinone	ND	1	ND	ND
Dimethylphthalate	ND	0.291	ND	ND
1,3-Dinitrobenzene	ND	0.837	ND	ND
2,6-Dinitrotoluene	ND	0.704	ND	ND
Acenaphthylene	ND	0.327	ND	ND
3-Nitroaniline	ND	0.881	ND	ND
4-Nitrophenol	ND	30.7	ND	ND
2,4-Dinitrophenol	ND	31.5	ND	ND
Acenaphthene	ND	0.36	ND	ND
2,4-Dinitrotoluene	ND	0.445	ND	ND
Dibenzofuran	ND	0.244	ND	ND
Pentachlorobenzene	ND	0.674	ND	ND
1-Naphthylamine	ND	1.76	ND	ND
2-Naphthylamine	ND	1.56	ND	ND
2,3,4,6-Tetrachlorophenol	ND	0.714	ND	ND
Diethylphthalate	0.487	0.26	2.007E-04	2.007E-04
4-Chlorophenylphenyl ether	ND	0.283	ND	ND
Fluorene	ND	0.34	ND	ND
5-Nitro-o-toluidine	ND	0.363	ND	ND
4-Nitroaniline	ND	0.775	ND	ND
4,6-Dinitro-2-methylphenol	ND	27.2	ND	ND
Diphenylamine/N-NitrosoDPA	ND	0.368	ND	ND
sym-Trinitrobenzene	ND	1.25	ND	ND
Diallate	ND	0.475	ND	ND
Phenacetin	ND	0.224	ND	ND
4-Bromophenylphenyl ether	ND	0.689	ND	ND
Hexachlorobenzene	ND	0.371	ND	ND
4-Aminobiphenyl	ND	2.07	ND	ND
Pronamide	ND	0.257	ND	ND
Pentachlorophenol	ND	28.8	ND	ND
Pentachloronitrobenzene	ND	1.34	ND	ND

TABLE F-3. AEC - RUN NO. 1-2 COMPOSITE HG TEST (30 MARCH 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

people See Analyte	Run 1-2 Train B -Amount Detected, ug	Run 1-2 Train B - Detection Limit, ug	Run 1-2 Train B - Concentration, mg/m ³	Average Concentration - Run 1-2, mg/m ³
Phenanthrene	ND	0.61	ND	ND
Anthracene	ND	0.366	ND	ND .
Carbazole	ND	0.245	ND	ND
Di-n-butylphthalate	12.7	0.17	5.233E-03	5.233E-03
4-Nitroquinoline-1-oxide	ND	22.5	ND	ND
Methapyrilene	ND	20.7	ND	ND
Fluoranthene	ND	0.361	ND	ND
Benzidine	ND	13.4	ND	ND
Pyrene	ND	0.496	ND	ND
p-Dimethylaminoazobenzene	ND	0.368	ND	ND
Chlorobenzilate	ND	0.512	ND	ND
Kepone	ND	18.8	ND	ND
Butylbenzylphthalate	3.87	0.205	1.595E-03	1.595E-03
3,3'-Dimethylbenzidine	ND	1.98	ND	ND
2-Acetylaminofluorene	ND	0.312	ND	ND
bis(2-Ethylhexyl)phthalate	1.92	1.22	7.912E-04	7.912E-04
3,3'-Dichlorobenzidine	ND	0.335	ND	ND
Benz(a)anthracene	ND	0.452	ND	ND
Chrysene	ND	0.488	ND	ND
Di-n-octylphthalate	ND	0.312	ND	ND
7,12-Dimethylbenz(a)anthracene	ND	0.461	ND	ND
Benzo(b)fluoranthene (a)	ND	0.278	ND	ND
Benzo(k)fluoranthene (a)	ND	0.581	ND	ND
Benz(a)pyrene	ND	0.329	ND	ND
3-Methylcholanthrene	ND	1.17	ND	ND
Indeno(1,2,3-cd)pyrene	ND	0.219	ND	ND
Dibenz(a,h)anthracene	ND	0.246	ND	ND
Benzo(g,h,i)perylene	ND	0.236	ND	ND

a

Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

TABLE F-4. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK
Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

	Background -	Background -	Background - Concentration,	Reagent Blank -	Reagent Blank -	Field Blank -	Field Blank -
Analyte	Detected, ug	бп	mg/m³	Detected, ug	бп	Detected, ug	6n
N-Nitrosodimethylamine	QN	0.348	ON	QN	0.348	QN	0.348
Pyridine	QN	1.02	QN	QN	1.02	QN	1.02
2-Picoline	QN	1.06	QN	QN	1.06	QN	1.06
Methyl methanesulfonate	QN	0.401	QN	QN	0.401	QN	0.401
N-Nitrosomethylethylamine	QN	962'0	ON	QN	962'0	ND	0.796
N-Nitrosodiethylamine	ON	0.85	DN	QN	0.85	QN	0.85
Ethyl methanesulfonate	QN	0.391	DN	QN	0.391	QN	0.391
Phenol	QN	0.25	ND	DN	0.25	ND	0.25
Aniline	QN	0.399	Q	QN	0.399	QN	0.399
bis(2-Chloroethyl)ether	QN	0.312	DN	QN	0.312	QN	0.312
Pentachloroethane	QN	0.721	ND	QN	0.721	QN	0.721
2-Chlorophenol	QN	0.159	QN	QN	0.159	QN	0.159
1,3-Dichlorobenzene	QN	208.0	ND	ND	208.0	ON	0.307
1,4-Dichlorobenzene	ΩN	0.616	QN	DN	0.616	QN	0.616
Benzyl alcohol	QN	269.0	QN	DN	269'0	ND	269.0
2-Methylphenol	QN	0.561	ON	DN	0.561	ND	0.561
1,2-Dichlorobenzene	ND	0.446	ON	DN	0.446	ND	0.446
bis(2-Chloroisopropyl)ether	QN	0.376	QN	QN	0.376	ON	0.376
o-Toluidine	QN	968.0	QN	DN	968.0	ND	968.0
4-Methylphenol/3-Methylphenol	QN	0.474	ON	QN	0.474	QN	0.474
N-Nitroso-di-n-propylamine	QN	0.281	ON	ON	0.281	ON	0.281
Acetophenone	0.582	0.295	1.897E-04	0.578	0.295	ON	0.295
N-Nitrosomorpholine	Q	0.899	ON	ON	0.899	QN	0.899
N-Nitrosopyrrolidine	QN	1.19	ON	ON	1.19	ON	1.19
Hexachloroethane	QN	0.494	ND	DN	0.494	DN	0.494
Nitrobenzene	Q	0.891	ON	ND	0.891	ON	0.891
N-Nitrosopiperidine	ON	0.729	QN	ND	0.729	ON	0.729
Isophorone	QN	0.214	QN	DN	0.214	QN	0.214
2,4-Dimethylphenol	QN	0.337	DN	QN	0.337	ON	0.337
2-Nitrophenol	QN	0.536	DN	QN	0.536	QN	0.536
bis(2-Chloroethoxy)methane	QN	0.391	QN	ON	0.391	QN	0.391
Benzoic acid	QN	36.6	QN	QN	36.6	QN	36.6

TABLE F-4. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK
Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected
on filter and resin tran

on filter and resin trap Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

Analyte	Background - Amount Detected, ug	Background - Detection Limit,	Background - Concentration, mg/m³	Reagent Blank - Amount Detected, ug	Reagent Blank - Detection Limit, ug	Field Blank - Amount Detected, ug	Field Blank - Detection Limit, ug
2 4-Dichlorophenol	QN	0.49	QN	QN	0.49	ON	0.49
1.2.4-Trichlorobenzene	Q	0.353	QV	Q	0.353	QN	0.353
Naphthalene	QN	0.447	QN	QN	0.447	QN	0.447
p-Chloroaniline	QN	0.322	QN	QN	0.322	QN	0.322
2.6-Dichlorophenol	QN	0.344	QN	ΠN	0.344	QN	0.344
Hexachloropropene	QN	0.565	ND	ΩN	0.565	QN	0.565
Hexachlorobutadiene	Q	0.51	ON	QN	0.51	QN	0.51
Dimethylphenethylamine	Q	20.4	QN ·	ΩN	20.4	ND	20.4
N-Nitroso-di-n-butylamine	QN	0.374	QN	ΠN	0.374	ON	0.374
4-Chloro-3-methylphenol	QN.	0.567	Q	QΝ	0.567	ON	0.567
Safrole	QN	0.711	QN	QN	0.711	QN	0.711
2-Methylnaphthalene	9	0.359	QN	ΩN	0.359	QN	0.359
1.2.4.5-Tetrachlorobenzene	9	0.546	Q.	ΩN	0.546	ND	0.546
Hexachlorocyclopentadiene	QN	11.1	QN	QN	11.1	ND	11.1
2,4,6-Trichlorophenol	QN	0.631	ON	QN	0.631	QN	0.631
2,4,5-Trichlorophenol	QN	0.536	QN	ΠN	0.536	ND	0.536
Isosafrole	QN	1.08	DN	QN	1.08	QN	1.08
2-Chloronaphthalene	Q	0.564	QN	QN	0.564	Q	0.564
2-Nitroaniline	QN	0.358	ND	ON	0.358	Q	0.358
1,4-Naphthoquinone	Q	1	ON	ON	1	Q	1
Dimethylphthalate	QN	0.291	ON	QN	0.291	Ω	0.291
1,3-Dinitrobenzene	QN	0.837	ND	QN	0.837	Q	0.837
2,6-Dinitrotoluene	QN	0.704	QN	QN	0.704	QN	0.704
Acenaphthylene	QN	0.327	QN	QN	0.327	QN	0.327
3-Nitroaniline	QN	0.881	QN	QN	0.881	QN	0.881
4-Nitrophenol	QN	30.7	QN	QN	30.7	QN	30.7
2,4-Dinitrophenol	QN	31.5	QN	QN	31.5	Q	31.5
Acenaphthene	Q	0.36	QN	QN	0.36	QN	0.36
2,4-Dinitrotoluene	QN	0.445	QN	ON	0.445	QN	0.445
Dibenzofuran	QN	0.244	QN	QN	0.244	Q	0.244
Pentachlorobenzene	QN	0.674	S	Q	0.674	QN	0.674
1-Naphthylamine	QN	1.76	QN	Q	1.76	Q	1.76

TABLE F-4. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK
Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected

on filter and resin trap Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

	Background - Amount	Background - Detection Limit,	Background - Concentration,	Reagent Blank - Amount	Reagent Blank - Detection Limit,	Field Blank - Amount	Field Blank - Detection Limit,
Analyte	Detected, ug	бn	mg/m³	Detected, ug	бn	Detected, ug	бn
2-Naphthylamine	ND	1.56	QN	QN	1.56	ON	1.56
2,3,4,6-Tetrachlorophenol	QN	0.714	ND	QN	0.714	QN	0.714
Diethylphthalate	QN	0.26	ND	QN	0.26	ON	0.26
4-Chlorophenylphenyl ether	QΝ	0.283	QN	ΩN	0.283	QN	0.283
Fluorene	QN	0.34	ND	QN	0.34	QN	0.34
5-Nitro-o-toluidine	QN	0.363	QN	QN	0.363	QN	0.363
4-Nitroaniline	QN	0.775	ND	QN	0.775	ND	0.775
4,6-Dinitro-2-methylphenol	QN	27.2	ND	QN	27.2	ON	27.2
Diphenylamine/N-NitrosoDPA	QN .	0.368	ND	QN	0.368	QN	0.368
sym-Trinitrobenzene	QN	1.25	ND	QN	1.25	QN	1.25
Diallate	DN	0.475	ND	QN	0.475	ND	0.475
Phenacetin	QN	0.224	ND	QN	0.224	ND	0.224
4-Bromophenylphenyl ether	DN	0.689	ND	QN	689.0	QN	0.689
Hexachlorobenzene	DN	0.371	ND	QN	0.371	ON	0.371
4-Aminobiphenyl	ON	2.07	ND	QN	2.07	ND	2.07
Pronamide	QN	0.257	ND	QN	0.257	ND	0.257
Pentachlorophenol	QN	28.8	ND	QN	28.8	ND	28.8
Pentachloronitrobenzene	QN	1.34	ND	QN	1.34	QN	1.34
Phenanthrene	QN	0.61	ND	QN	0.61	ND	0.61
Anthracene	QN	0.366	ND	QN	0.366	ND	0.366
Carbazole	Q	0.245	ND	ON	0.245	ND	0.245
Di-n-butylphthalate	QN	0.17	ND	5.39	0.17	2.93	0.17
4-Nitroquinoline-1-oxide	QN	22.5	ND	QN	22.5	ND	22.5
Methapyrilene	QN	20.7	ND	QN	20.7	ND	20.7
Fluoranthene	QN	0.361	ND	QN	0.361	ND	0.361
Benzidine	QN	13.4	ND	QN	13.4	ON	13.4
Pyrene	ON	0.496	ND	QN	0.496	ND	0.496
p-Dimethylaminoazobenzene	ON	0.368	ND	QN	0.368	QN	0.368
Chlorobenzilate	ON	0.512	ND	QN	0.512	ON	0.512
Kepone	QN	18.8	ON	QN	18.8	ND	18.8
Butylbenzylphthalate	QN	0.205	ND	QN	0.205	0.514	0.205
3,3'-Dimethylbenzidine	Q	1.98	QN	QN	1.98	QN	1.98

TABLE F-4. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

Analyte	Background - Amount Detected, ug	Background - Detection Limit, ug	Background - Concentration, mg/m³	Reagent Blank - Amount Detected, ug	Reagent Blank - Detection Limit, ug	Field Blank - Amount Detected, ug	Field Blank - Detection Limit, ug
2-Acetylaminofluorene	QN	0.312	QN	QN	0.312	QN	0.312
bis(2-Ethylhexyl)phthalate	65.6	1.22	2.139E-02	Q	1.22	2.56	1.22
3,3'-Dichlorobenzidine	QN	0.335	QN	QN	0.335	QN	0.335
Benz(a)anthracene	ND	0.452	QN	QN	0.452	ON	0.452
Chrysene	ND	0.488	ND	QN	0.488	DN	0.488
Di-n-octylphthalate	ND	0.312	QN	QΝ	0.312	QN	0.312
7,12-Dimethylbenz(a)anthracene	ND	0.461	DN	QN	0.461	QN	0.461
Benzo(b)fluoranthene (a)	QN	0.278	QN	QN	0.278	2	0.278
Benzo(k)fluoranthene (a)	ND	0.581	QN	QN	0.581	ON	0.581
Benz(a)pyrene	ND	0.329	ND	QN	0.329	ND	0.329
3-Methylcholanthrene	ND	1.17	QN	QN	1.17	QN	1.17
Indeno(1,2,3-cd)pyrene	ND	0.219	ND	ΩN	0.219	ON	0.219
Dibenz(a,h)anthracene	ND	0.246	ND	QN	0.246	ND	0.246
Benzo(g,h,i)perylene	QN	0.236	QN	QN	0.236	QN	0.236

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

TABLE F-5. AEC - RUN NO. 1-2 HG TEST (30 MARCH 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

		ł	Run 1-2	Average Maximum	Average Minimum
	41 1	Run 2 Train	Train B -	Detection Limit -	Detection Limit -
	A -Detection	A -Detection	1	Concentration,	Concentration,
Analyte	Limit, ug	Limit, ug	Limit, ug	mg/m³	mg/m³
N-Nitrosodimethylamine	0.348	0.348	0.348	2.684E-04	2.684E-04
Pyridine	1.02	1.02	1.02	7.868E-04	7.868E-04
2-Picoline	1.06	1.06	1.06	8.177E-04	8.177E-04
Methyl methanesulfonate	0.401	0.401	0.401	3.093E-04	3.093E-04
N-Nitrosomethylethylamine	0.796	0.796	0.796	6.140E-04	6.140E-04
N-Nitrosodiethylamine	0.85	0.85	0.85	6.557E-04	6.557E-04
Ethyl methanesulfonate	0.391	0.391	0.391	3.016E-04	3.016E-04
Phenol	0.25	0.25	0.25	1.928E-04	1.928E-04
Aniline	0.399	0.399	0.399	3.078E-04	3.078E-04
bis(2-Chloroethyl)ether	0.312	0.312	0.312	2.407E-04	2.407E-04
Pentachloroethane	0.721	0.721	0.721	5.562E-04	5.562E-04
2-Chlorophenol	0.159	0.159	0.159	1.227E-04	1.227E-04
1,3-Dichlorobenzene	0.307	0.307	0.307	2.368E-04	2.368E-04
1,4-Dichlorobenzene	0.616	0.616	0.616	4.752E-04	4.752E-04
Benzyl alcohol	0.697	0.697	0.697	5.377E-04	5.377E-04
2-Methylphenol	0.561	0.561	0.561	4.328E-04	4.328E-04
1,2-Dichlorobenzene	0.446	0.446	0.446	3.440E-04	3.440E-04
bis(2-Chloroisopropyl)ether	0.376	0.376	0.376	2.900E-04	2.900E-04
o-Toluidine	0.396	0.396	0.396	3.055E-04	3.055E-04
4-Methylphenol/3-Methylphenol	0.474	0.474	0.474	3.656E-04	3.656E-04
N-Nitroso-di-n-propylamine	0.281	0.281	0.281	2.168E-04	2.168E-04
Acetophenone	0.295	0.295	0.295	2.276E-04	2.276E-04
N-Nitrosomorpholine	0.899	0.899	0.899	6.935E-04	6.935E-04
N-Nitrosopyrrolidine	1.19	1.19	1.19	9.180E-04	9.180E-04
Hexachloroethane	0.494	0.494	0.494	3.811E-04	3.811E-04
Nitrobenzene	0.891	0.891	0.891	6.873E-04	6.873E-04
N-Nitrosopiperidine	0.729	0.729	0.729	5.623E-04	5.623E-04
Isophorone	0.214	0.214	0.214	1.651E-04	1.651E-04
2,4-Dimethylphenol	0.337	0.337	0.337	2.600E-04	2.600E-04
2-Nitrophenol	0.536	0.536	0.536	4.135E-04	4.135E-04
bis(2-Chloroethoxy)methane	0.391	0.391	0.391	3.016E-04	3.016E-04
Benzoic acid	36.6	36.6	36.6	2.823E-02	2.823E-02
2,4-Dichlorophenol	0.49	0.49	0.49	3.780E-04	3.780E-04
1,2,4-Trichlorobenzene	0.353	0.353	0.353	2.723E-04	2.723E-04
Naphthalene	0.447	0.447	0.447	3.448E-04	3.448E-04
p-Chloroaniline	0.322	0.322	0.322	2.484E-04	2.484E-04
2,6-Dichlorophenol	0.344	0.344	0.344	2.654E-04	2.654E-04
Hexachloropropene	0.565	0.565	0.565	4.358E-04	4.358E-04
Hexachlorobutadiene	0.51	0.51	0.51	3.934E-04	3.934E-04
Dimethylphenethylamine	20.4	20.4	20.4	1.574E-02	1.574E-02

TABLE F-5. AEC - RUN NO. 1-2 HG TEST (30 MARCH 1998)
Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)
Analyzed by: Radian International LLC

Analyte	201 11 CHESSON CHICAGO (NO. 10. 1	Run 2 Train Å -Detection Limit, ug	Run 1-2 Train B - Detection Limit, ug	Average Maximum Detection Limit - Concentration, mg/m ³	Average Minimum Detection Limit - Concentration, mg/m³
N-Nitroso-di-n-butylamine	0.374	0.374	0.374	2.885E-04	2.885E-04
4-Chloro-3-methylphenol	0.567	0.567	0.567	4.374E-04	4.374E-04
Safrole	0.711	0.711	0.711	5.485E-04	5.485E-04
2-Methylnaphthalene	0.359	0.359	0.359	2.769E-04	2.769E-04
1,2,4,5-Tetrachlorobenzene	0.546	0.546	0.546	4.212E-04	4.212E-04
Hexachlorocyclopentadiene	11.1	11.1	11.1	8.562E-03	8.562E-03
2,4,6-Trichlorophenol	0.631	0.631	0.631	4.868E-04	4.868E-04
2,4,5-Trichlorophenol	0.536	0.536	0.536	4.135E-04	4.135E-04
Isosafrole	1.08	1.08	1.08	8.331E-04	8.331E-04
2-Chloronaphthalene	0.564	0.564	0.564	4.351E-04	4.351E-04
2-Nitroaniline	0.358	0.358	0.358	2.762E-04	2.762E-04
1,4-Naphthoquinone	1	1	1	7.714E-04	7.714E-04
Dimethylphthalate	0.291	0.291	0.291	2.245E-04	2.245E-04
1,3-Dinitrobenzene	0.837	0.837	0.837	6.457E-04	6.457E-04
2,6-Dinitrotoluene	0.704	0.704	0.704	5.431E-04	5.431E-04
Acenaphthylene	0.327	0.327	0.327	2.522E-04	2.522E-04
3-Nitroaniline	0.881	0.881	0.881	6.796E-04	6.796E-04
4-Nitrophenol	30.7	30.7	30.7	2.368E-02	2.368E-02
2,4-Dinitrophenol	31.5	31.5	31.5	2.430E-02	2.430E-02
Acenaphthene	0.36	0.36	0.36	2.777E-04	2.777E-04
2,4-Dinitrotoluene	0.445	0.445	0.445	3.433E-04	3.433E-04
Dibenzofuran	0.244	0.244	0.244	1.882E-04	1.882E-04
Pentachlorobenzene	0.674	0.674	0.674	5.199E-04	5.199E-04
1-Naphthylamine	1.76	1.76	1.76	1.358E-03	1.358E-03
2-Naphthylamine	1.56	1.56	1.56	1.203E-03	1.203E-03
2,3,4,6-Tetrachlorophenol	0.714	0.714	0.714	5.508E-04	5.508E-04
Diethylphthalate	0.26	0.26	0.26	2.006E-04	2.006E-04
4-Chlorophenylphenyl ether	0.283	0.283	0.283	2.183E-04	2.183E-04
Fluorene	0.34	0.34	0.34	2.623E-04	2.623E-04
5-Nitro-o-toluidine	0.363	0.363	0.363	2.800E-04	2.800E-04
4-Nitroaniline	0.775	0.775	0.775	5.978E-04	5.978E-04
4,6-Dinitro-2-methylphenol	27.2	27.2	27.2	2.098E-02	2.098E-02
Diphenylamine/N-NitrosoDPA	0.368	0.368	0.368	2.839E-04	2.839E-04
sym-Trinitrobenzene	1.25	1.25	1.25	9.642E-04	9.642E-04
Diallate	0.475	0.475	0.475	3.664E-04	3.664E-04
Phenacetin .	0.224	0.224	0.224	1.728E-04	1.728E-04
4-Bromophenylphenyl ether	0.689	0.689	0.689	5.315E-04	5.315E-04
Hexachlorobenzene	0.371	0.371	0.371	2.862E-04	2.862E-04
4-Aminobiphenyl	2.07	2.07	2.07	1.597E-03	1.597E-03
Pronamide	0.257	0.257	0.257	1.982E-04	1.982E-04

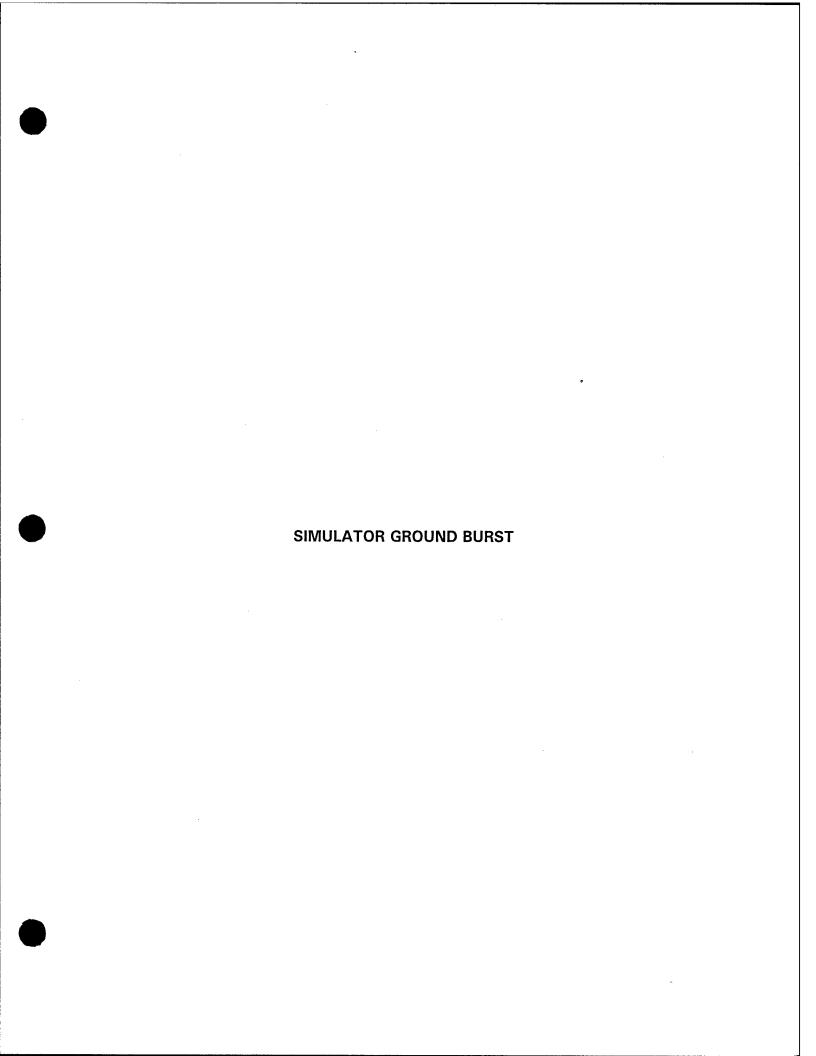
TABLE F-5. AEC - RUN NO. 1-2 HG TEST (30 MARCH 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

Analyte	A -Detection Limit, ug	Run 2 Train A -Detection Limit, ug	Limit, ug	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
Pentachlorophenol	28.8	28.8	28.8	2.222E-02	2.222E-02
Pentachloronitrobenzene	1.34	1.34	1.34	1.034E-03	1.034E-03
Phenanthrene	0.61	0.61	0.61	4.706E-04	4.706E-04
Anthracene	0.366	0.366	0.366	2.823E-04	2.823E-04
Carbazole	0.245	0.245	0.245	1.890E-04	1.890E-04
Di-n-butylphthalate	0.17	0.17	0.17	1.311E-04	1.311E-04
4-Nitroquinoline-1-oxide	22.5	22.5	22.5	1.736E-02	1.736E-02
Methapyrilene	20.7	20.7	20.7	1.597E-02	1.597E-02
Fluoranthene	0.361	0.361	0.361	2.785E-04	2.785E-04
Benzidine	13.4	13.4	13.4	1.034E-02	1.034E-02
Pyrene	0.496	0.496	0.496	3.826E-04	3.826E-04
p-Dimethylaminoazobenzene	0.368	0.368	0.368	2.839E-04	2.839E-04
Chlorobenzilate	0.512	0.512	0.512	3.950E-04	3.950E-04
Kepone	18.8	18.8	18.8	1.450E-02	1.450E-02
Butylbenzylphthalate	0.205	0.205	0.205	1.581E-04	1.581E-04
3,3'-Dimethylbenzidine	1.98	1.98	1.98	1.527E-03	1.527E-03
2-Acetylaminofluorene	0.312	0.312	0.312	2.407E-04	2.407E-04
bis(2-Ethylhexyl)phthalate	1.22	1.22	1.22	9.411E-04	9.411E-04
3,3'-Dichlorobenzidine	0.335	0.335	0.335	2.584E-04	2.584E-04
Benz(a)anthracene	0.452	0.452	0.452	3.487E-04	3.487E-04
Chrysene	0.488	0.488	0.488	3.764E-04	3.764E-04
Di-n-octylphthalate	0.312	0.312	0.312	2.407E-04	2.407E-04
7,12-Dimethylbenz(a)anthracene	0.461	0.461	0.461	3.556E-04	3.556E-04
Benzo(b)fluoranthene (a)	0.278	0.278	0.278	2.144E-04	2.144E-04
Benzo(k)fluoranthene (a)	0.581	0.581	0.581	4.482E-04	4.482E-04
Benz(a)pyrene	0.329	0.329	0.329	2.538E-04	2.538E-04
3-Methylcholanthrene	1.17	1.17	1.17	9.025E-04	9.025E-04
Indeno(1,2,3-cd)pyrene	0.219	0.219	0.219	1.689E-04	1.689E-04
Dibenz(a,h)anthracene	0.246	0.246	0.246	1.898E-04	1.898E-04
Benzo(g,h,i)perylene	0.236	0.236	0.236	1.820E-04	1.820E-04

Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.



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TABLE F-1. AEC - RUN NO. 1 GB TEST (30 MARCH 1998)

Compounds below the DLs are listed as nondetected (ND)

Analyte	Run 1 Train A - Amount Detected, ug	Run 1 Train A -Detection Limit, ug	Run 1 Train A - Concentration, mg/m ³	Average Concentration - Run 1, mg/m ³
N-Nitrosodimethylamine	ND	0.348	ND	ND
Pyridine	ND	1.02	ND	ND
2-Picoline	ND	1.06	ND	ND
Methyl methanesulfonate	ND	0.401	ND	ND
N-Nitrosomethylethylamine	ND	0.796	ND	ND
N-Nitrosodiethylamine	ND	0.85	ND	ND
Ethyl methanesulfonate	ND	0.391	ND	ND
Phenol	ND	0.25	ND	ND
Aniline	ND	0.399	ND	ND
bis(2-Chloroethyl)ether	ND	0.312	ND	ND
Pentachloroethane	ND	0.721	ND	ND
2-Chlorophenol	ND	0.159	ND	ND
1,3-Dichlorobenzene	ND	0.307	ND	ND
1,4-Dichlorobenzene	ND	0.616	ND	ND
Benzyl alcohol	ND	0.697	ND	ND
2-Methylphenol	ND	0.561	ND	ND
1,2-Dichlorobenzene	ND	0.446	ND	ND
bis(2-Chloroisopropyl)ether	ND	0.376	ND	ND
o-Toluidine	ND	0.396	ND	ND
4-Methylphenol/3-Methylphenol	ND	0.474	ND	ND
N-Nitroso-di-n-propylamine	ND	0.281	ND	ND
Acetophenone	0.641	0.295	4.915E-04	4.915E-04
N-Nitrosomorpholine	ND	0.899	ND	ND
N-Nitrosopyrrolidine	ND	1.19	ND	ND
Hexachloroethane	ND	0.494	ND	ND
Nitrobenzene	ND	0.891	ND	ND
N-Nitrosopiperidine	ND	0.729	ND	ND
Isophorone	ND	0.214	ND	ND
2,4-Dimethylphenol	ND	0.337	ND	ND
2-Nitrophenol	ND	0.536	ND	ND
bis(2-Chloroethoxy)methane	ND	0.391	ND	ND
Benzoic acid	ND	36.6	ND	ND
2,4-Dichlorophenol	ND	0.49	ND	ND
1,2,4-Trichlorobenzene	ND	0.353	ND	ND
Naphthalene	0.869	0.447	6.663E-04	6.663E-04
p-Chloroaniline	ND	0.322	ND	ND
2,6-Dichlorophenol	ND	0.344	ND	ND
Hexachloropropene	ND	0.565	ND	ND
Hexachlorobutadiene	ND	0.51	ND	ND
Dimethylphenethylamine	ND	20.4	ND	ND
N-Nitroso-di-n-butylamine	ND	0.374	ND	ND

TABLE F-1. AEC - RUN NO. 1 GB TEST (30 MARCH 1998)

Compounds below the DLs are listed as nondetected (ND)

Analyte	Run 1 Train A - Amount Detected, ug	A -Detection Limit, ug	Run 1 Train A - Concentration, mg/m³	Average Concentration - Run 1, mg/m³
4-Chloro-3-methylphenol	ND	0.567	ND	ND
Safrole	ND	0.711	ND	ND
2-Methylnaphthalene	ND	0.359	ND	ND
1,2,4,5-Tetrachlorobenzene	ND	0.546	ND	ND
Hexachlorocyclopentadiene	ND	11.1	ND	ND
2,4,6-Trichlorophenol	ND	0.631	ND	ND
2,4,5-Trichlorophenol	ND	0.536	ND	ND
Isosafrole	ND	1.08	ND	ND
2-Chloronaphthalene	ND	0.564	ND	ND
2-Nitroaniline	ND	0.358	ND	ND
1,4-Naphthoquinone	ND	1	ND	ND
Dimethylphthalate	ND	0.291	ND	ND
1,3-Dinitrobenzene	ND	0.837	ND	ND
2,6-Dinitrotoluene	ND	0.704	ND	ND
Acenaphthylene	ND	0.327	ND	ND
3-Nitroaniline	ND	0.881	ND	ND
4-Nitrophenol	ND	30.7	ND	ND
2,4-Dinitrophenol	ND	31.5	ND	ND
Acenaphthene	ND	0.36	ND	ND
2,4-Dinitrotoluene	ND	0.445	ND	ND
Dibenzofuran	ND	0.244	ND	ND
Pentachlorobenzene	ND	0.674	ND	ND
1-Naphthylamine	ND	1.76	ND	ND
2-Naphthylamine	ND	1.56	ND	ND
2,3,4,6-Tetrachlorophenol	ND	0.714	ND	ND
Diethylphthalate	ND	0.26	ND	ND
4-Chlorophenylphenyl ether	ND	0.283	ND	ND
Fluorene	ND	0.34	ND	ND
5-Nitro-o-toluidine	ND	0.363	ND	ND
4-Nitroaniline	ND	0.775	ND	ND
4,6-Dinitro-2-methylphenol	ND	27.2	ND	ND
Diphenylamine/N-NitrosoDPA	ND	0.368	ND	ND
sym-Trinitrobenzene	ND	1.25	ND	ND
Diallate	ND	0.475	ND	ND
Phenacetin	ND	0.224	ND	ND
4-Bromophenylphenyl ether	ND	0.689	ND	ND
Hexachlorobenzene	ND	0.371	ND	ND
4-Aminobiphenyl	ND	2.07	ND	ND
Pronamide	ND	0.257	ND	ND
Pentachlorophenol	ND	28.8	ND	ND
Pentachloronitrobenzene	ND	1.34	ND	ND

TABLE F-1. AEC - RUN NO. 1 GB TEST (30 MARCH 1998)

Compounds below the DLs are listed as nondetected (ND)

Analyte	Run 1 Train A - Amount Detected, ug	Run 1 Train A -Detection Limit, ug	Run 1 Train A - Concentration, mg/m ³	Average Concentration - Run 1, mg/m ³
Phenanthrene	ND	0.61	ND	ND
Anthracene	ND	0.366	ND	ND
Carbazole	ND	0.245	ND	ND
Di-n-butylphthalate	0.577	0.17	4.424E-04	4.424E-04
4-Nitroquinoline-1-oxide	ND	22.5	ND	ND
Methapyrilene	ND	20.7	ND	ND
Fluoranthene	ND	0.361	ND	ND
Benzidine	ND	13.4	ND	ND
Pyrene	ND	0.496	ND	ND
p-Dimethylaminoazobenzene	ND	0.368	ND	ND
Chlorobenzilate	ND	0.512	ND	ND
Kepone	ND	18.8	ND	ND
Butylbenzylphthalate	3.96	0.205	3.036E-03	3.036E-03
3,3'-Dimethylbenzidine	ND	1.98	ND	ND
2-Acetylaminofluorene	ND	0.312	ND	ND
bis(2-Ethylhexyl)phthalate	5.09	1.22	3.903E-03	3.903E-03
3,3'-Dichlorobenzidine	ND	0.335	ND	ND
Benz(a)anthracene	ND	0.452	ND	ND
Chrysene	ND	0.488	ND	ND
Di-n-octylphthalate	1.35	0.312	1.035E-03	1.035E-03
7,12-Dimethylbenz(a)anthracene	ND	0.461	ND	ND
Benzo(b)fluoranthene (a)	ND	0.278	ND	ND
Benzo(k)fluoranthene (a)	ND	0.581	ND	ND
Benz(a)pyrene	ND	0.329	ND	ND
3-Methylcholanthrene	ND	1.17	ND	ND
Indeno(1,2,3-cd)pyrene	ND	0.219	ND	ND
Dibenz(a,h)anthracene	ND	0.246	ND	ND
Benzo(g,h,i)perylene	ND	0.236	ND	ND

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

TABLE F-2. AEC - RUN NO. 2 GB TEST (30 MARCH 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

				•
	Run 2 Train A -		Run 2 Train A -	Average
	Amount	A -Detection	Concentration,	Concentration -
Analyte	Detected, ug	Limit, ug	mg/m³	Run 2, mg/m ³
N-Nitrosodimethylamine	ND	0.348	ND	ND
Pyridine	ND	1.02	ND	ND
2-Picoline	ND	1.06	ND	ND
Methyl methanesulfonate	ND	0.401	ND	ND
N-Nitrosomethylethylamine	ND	0.796	ND	ND
N-Nitrosodiethylamine	ND	0.85	ND	ND
Ethyl methanesulfonate	ND	0.391	ND	ND
Phenol	ND	0.25	ND	ND
Aniline	ND	0.399	ND	ND
bis(2-Chloroethyl)ether	ND	0.312	ND	ND
Pentachloroethane	ND	0.721	ND	ND
2-Chlorophenol	ND	0.159	ND	ND
1,3-Dichlorobenzene	ND	0.307	ND	ND
1,4-Dichlorobenzene	ND	0.616	ND	ND
Benzyl alcohol	ND	0.697	ND	ND
2-Methylphenol	ND	0.561	ND	ND
1,2-Dichlorobenzene	ND	0.446	ND	ND
bis(2-Chloroisopropyl)ether	ND	0.376	ND	ND
o-Toluidine	ND	0.396	ND	ND
4-Methylphenol/3-Methylphenol	ND	0.474	ND	ND
N-Nitroso-di-n-propylamine	ND	0.281	ND	ND
Acetophenone	0.609	0.295	7.980E-04	7.980E-04
N-Nitrosomorpholine	ND	0.899	ND	ND
N-Nitrosopyrrolidine	ND	1.19	ND	ND
Hexachloroethane	ND	0.494	ND	ND
Nitrobenzene	ND	0.891	ND	ND
N-Nitrosopiperidine	ND	0.729	ND	ND
Isophorone	ND	0.214	ND	ND
2,4-Dimethylphenol	ND	0.337	ND	ND
2-Nitrophenol	ND	0.536	ND	ND
bis(2-Chloroethoxy)methane	ND	0.391	ND	ND,
Benzoic acid	ND	36.6	ND	ND
2,4-Dichlorophenol	ND	0.49	ND	ND
1,2,4-Trichlorobenzene	ND	0.353	ND	ND
Naphthalene	1.2	0.447	1.572E-03	1.572E-03
p-Chloroaniline	ND	0.322	ND	ND
2,6-Dichlorophenol	ND	0.344	ND	ND
Hexachloropropene	ND	0.565	ND	ND
Hexachlorobutadiene	ND	0.51	ND	ND
Dimethylphenethylamine	ND	20.4	ND	ND
N-Nitroso-di-n-butylamine	ND	0.374	ND	ND

TABLE F-2. AEC - RUN NO. 2 GB TEST (30 MARCH 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

Analyte	Run 2 Train A - Amount Detected, ug	Run 2 Train A -Detection Limit, ug	Run 2 Train A - Concentration, mg/m³	Average Concentration - Run 2, mg/m³
4-Chioro-3-methylphenol	ND	0.567	ND	ND
Safrole	ND	0.711	ND	ND
2-Methylnaphthalene	ND	0.359	ND	ND
1,2,4,5-Tetrachlorobenzene	ND	0.546	ND	ND
Hexachlorocyclopentadiene	ND	11.1	ND	ND
2,4,6-Trichlorophenol	ND	0.631	ND	ND
2,4,5-Trichlorophenol	ND	0.536	ND	ND
Isosafrole	ND	1.08	ND	ND
2-Chloronaphthalene	ND	0.564	ND	ND
2-Nitroaniline	ND	0.358	ND	ND
1,4-Naphthoquinone	ND	1	ND	ND ND
Dimethylphthalate	ND	0.291	ND	ND
1,3-Dinitrobenzene	ND	0.837	ND	ND
2,6-Dinitrotoluene	ND	0.704	ND	ND
Acenaphthylene	ND	0.327	ND	ND
3-Nitroaniline	ND	0.881	ND	ND
4-Nitrophenol	ND	30.7	ND	ND
2,4-Dinitrophenol	ND	31.5	ND	ND
Acenaphthene	ND	0.36	ND	ND
2,4-Dinitrotoluene	ND	0.445	ND	ND
Dibenzofuran	ND	0.244	ND	ND
Pentachlorobenzene	ND	0.674	ND	ND
1-Naphthylamine	ND	1.76	ND	ND
2-Naphthylamine	ND	1.56	ND	ND
2,3,4,6-Tetrachlorophenol	ND	0.714	ND	ND
Diethylphthalate	ND	0.26	ND	ND
4-Chlorophenylphenyl ether	ND	0.283	ND	ND
Fluorene	ND	0.34	ND	ND
5-Nitro-o-toluidine	ND	0.363	ND	ND
4-Nitroaniline	ND	0.775	ND	ND
4,6-Dinitro-2-methylphenol	ND	27.2	ND	ND
Diphenylamine/N-NitrosoDPA	ND	0.368	ND	ND
sym-Trinitrobenzene	ND	1.25	ND ND	ND
Diallate	ND ND	0.475	ND ND	ND ND
Phenacetin	ND ND	0.473	ND ND	ND ND
4-Bromophenylphenyl ether	ND ND	0.689	ND ND	ND
Hexachlorobenzene	ND ND	0.371	ND	ND ND
4-Aminobiphenyl	ND ND	2.07	ND	ND ND
Pronamide	ND ND	0.257	ND ND	ND
Pentachlorophenol	ND ND	28.8	ND ND	ND ND
Pentachloronitrobenzene	ND ND	1.34	ND ND	ND ND

TABLE F-2. AEC - RUN NO. 2 GB TEST (30 MARCH 1998)

Compounds below the DLs are listed as nondetected (ND)

Analyte	Run 2 Train A - Amount Detected, ug	Run 2 Train A -Detection Limit, ug	Run 2 Train A - Concentration, mg/m ³	Average Concentration - Run 2, mg/m³
Phenanthrene	ND	0.61	ND	ND
Anthracene	ND	0.366	ND	ND
Carbazole	ND	0.245	ND	ND
Di-n-butylphthalate	4.02	0.17	5.268E-03	5.268E-03
4-Nitroquinoline-1-oxide	ND	22.5	ND	ND
Methapyrilene	ND	20.7	ND	ND
Fluoranthene	ND	0.361	ND	ND
Benzidine	ND	13.4	ND	ND
Pyrene	ND	0.496	ND	ND
p-Dimethylaminoazobenzene	ND	0.368	ND	ND
Chlorobenzilate	ND	0.512	ND	ND
Kepone	ND	18.8	ND	ND
Butylbenzylphthalate	0.975	0.205	1.278E-03	1.278E-03
3,3'-Dimethylbenzidine	ND	1.98	ND	ND
2-Acetylaminofluorene	ND	0.312	ND	ND
bis(2-Ethylhexyl)phthalate	ND	1.22	ND	ND
3,3'-Dichlorobenzidine	ND	0.335	ND	ND
Benz(a)anthracene	ND	0.452	ND	ND
Chrysene	ND	0.488	ND	ND
Di-n-octylphthalate	ND	0.312	ND	ND
7,12-Dimethylbenz(a)anthracene	ND	0.461	ND	ND
Benzo(b)fluoranthene (a)	ND	0.278	ND	ND
Benzo(k)fluoranthene (a)	ND	0.581	ND	ND
Benz(a)pyrene	ND	0.329	ND	ND
3-Methylcholanthrene	ND	1.17	ND	ND
Indeno(1,2,3-cd)pyrene	ND	0.219	ND	ND
Dibenz(a,h)anthracene	ND	0.246	ND	ND
Benzo(g,h,i)perylene	ND	0.236	ND	ND

Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

TABLE F-3. AEC - RUN NO. 1-2 COMPOSITE GB TEST (30 MARCH 1998)
Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

more the second and t	Run 1-2 Train B -Amount Detected, ug	Run 1-2 Train B - Detection Limit, ug	Run 1-2 Train B - Concentration, mg/m ³	Average Concentration - Run 1-2, mg/m³
N-Nitrosodimethylamine	ND	0.348	ND	ND
Pyridine	ND	1.02	ND	ND
2-Picoline	ND	1.06	ND	ND
Methyl methanesulfonate	ND	0.401	ND	ND
N-Nitrosomethylethylamine	ND	0.796	ND	ND
N-Nitrosodiethylamine	ND	0.85	ND	ND
Ethyl methanesulfonate	ND	0.391	ND	ND
Phenol	ND	0.25	ND	ND
Aniline	ND	0.399	ND	ND
bis(2-Chloroethyl)ether	ND	0.312	ND	ND
Pentachloroethane	ND	0.721	ND	ND
2-Chlorophenol	ND	0.159	ND	ND
1,3-Dichlorobenzene	ND	0.307	ND	ND
1,4-Dichlorobenzene	ND	0.616	ND	ND
Benzyl alcohol	ND	0.697	ND	ND
2-Methylphenol	ND	0.561	ND	ND
1,2-Dichlorobenzene	ND	0.446	ND	ND
bis(2-Chloroisopropyl)ether	ND	0.376	ND	ND
o-Toluidine	ND	0.396	ND	ND
4-Methylphenol/3-Methylphenol	ND	0.474	ND	ND
N-Nitroso-di-n-propylamine	ND	0.281	ND	ND
Acetophenone	1.36	0.295	7.518E-04	7.518E-04
N-Nitrosomorpholine	ND	0.899	ND	ND
N-Nitrosopyrrolidine	ND	1.19	ND	ND
Hexachloroethane	ND	0.494	ND	ND
Nitrobenzene	ND	0.891	ND	ND
N-Nitrosopiperidine	ND	0.729	ND	ND
Isophorone	ND	0.214	ND	ND
2,4-Dimethylphenol	ND	0.337	ND	ND
2-Nitrophenol	ND	0.536	ND	ND
bis(2-Chloroethoxy)methane	ND	0.391	ND	ND
Benzoic acid	ND	36.6	ND	ND
2,4-Dichlorophenol	ND	0.49	ND	ND
1,2,4-Trichlorobenzene	ND	0.353	ND	ND
Naphthalene	2.17	0.447	1.200E-03	1.200E-03
p-Chloroaniline	ND	0.322	ND ND	ND
2,6-Dichlorophenol	ND ND	0.344	ND	ND ND
Hexachloropropene	ND .	0.565	ND	ND
Hexachlorobutadiene	ND	0.51	ND ND	ND
Dimethylphenethylamine	ND	20.4	ND ND	ND
N-Nitroso-di-n-butylamine	ND	0.374	ND	ND

TABLE F-3. AEC - RUN NO. 1-2 COMPOSITE GB TEST (30 MARCH 1998)

Compounds below the DLs are listed as nondetected (ND)

Analyte	Run 1-2 Train B -Amount Detected, ug	Run 1-2 Train B - Detection Limit, ug	Run 1-2 Train B - Concentration, mg/m³	Average Concentration - Run 1-2, mg/m³
4-Chloro-3-methylphenol	ND	0.567	ND	ND
Safrole	ND	0.711	ND	ND
2-Methylnaphthalene	0.64	0.359	3.538E-04	3.538E-04
1,2,4,5-Tetrachlorobenzene	ND	0.546	ND	ND
Hexachlorocyclopentadiene	ND	11.1	ND	ND
2,4,6-Trichlorophenol	ND	0.631	ND	ND
2,4,5-Trichlorophenol	ND	0.536	ND	ND
Isosafrole	ND	1.08	ND	ND
2-Chloronaphthalene	ND	0.564	ND	ND
2-Nitroaniline	ND	0.358	ND	ND
1,4-Naphthoquinone	ND	1	ND	ND
Dimethylphthalate	ND	0.291	ND	ND
1,3-Dinitrobenzene	ND	0.837	ND	ND
2,6-Dinitrotoluene	ND	0.704	ND	ND
Acenaphthylene	ND	0.327	ND	ND
3-Nitroaniline	ND	0.881	ND	ND
4-Nitrophenol	ND	30.7	ND	ND
2,4-Dinitrophenol	ND	31.5	ND	ND
Acenaphthene	ND	0.36	ND	ND
2,4-Dinitrotoluene	ND	0.445	ND	ND
Dibenzofuran	ND	0.244	ND	ND
Pentachlorobenzene	ND	0.674	ND	ND
1-Naphthylamine	ND	1.76	ND	ND
2-Naphthylamine	ND	1.56	ND	ND
2,3,4,6-Tetrachlorophenol	ND	0.714	ND	ND
Diethylphthalate	0.412	0.26	2.278E-04	2.278E-04
4-Chlorophenylphenyl ether	ND	0.283	ND	ND
Fluorene	ND	0.34	ND	ND
5-Nitro-o-toluidine	ND	0.363	ND	ND
4-Nitroaniline	ND	0.775	ND	ND
4,6-Dinitro-2-methylphenol	ND	27.2	ND	ND
Diphenylamine/N-NitrosoDPA	ND	0.368	ND	ND
sym-Trinitrobenzene	ND	1.25	ND	ND
Diallate	ND	0.475	ND	ND
Phenacetin	ND	0.224	ND	ND
4-Bromophenylphenyl ether	ND	0.689	ND	ND
Hexachlorobenzene	ND	0.371	ND	ND
4-Aminobiphenyl	ND	2.07	ND	ND
Pronamide	ND	0.257	ND	ND
Pentachlorophenol	ND	28.8	ND	ND
Pentachloronitrobenzene	ND	1.34	ND	ND

TABLE F-3. AEC - RUN NO. 1-2 COMPOSITE GB TEST (30 MARCH 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

Hall the second	Run 1-2 Train B -Amount Detected, ug	Run 1-2 Train B - Detection Limit, ug	Run 1-2 Train B - Concentration, mg/m ³	Average Concentration - Run 1-2, mg/m³
Phenanthrene	ND	0.61	ND	ND
Anthracene	ND	0.366	ND	ND
Carbazole	ND	0.245	ND	ND
Di-n-butylphthalate	2.74	0.17	1.515E-03	1.515E-03
4-Nitroquinoline-1-oxide	ND	22.5	ND	ND
Methapyrilene	ND	20.7	ND	ND
Fluoranthene	ND	0.361	ND	ND
Benzidine	ND	13.4	ND	ND
Pyrene	ND	0.496	ND	ND
p-Dimethylaminoazobenzene	ND	0.368	ND	ND
Chlorobenzilate	ND	0.512	ND	ND
Kepone	ND	18.8	ND	ND
Butylbenzylphthalate	1.86	0.205	1.028E-03	1.028E-03
3,3'-Dimethylbenzidine	ND	1.98	ND	ND
2-Acetylaminofluorene	ND	0.312	ND	ND
bis(2-Ethylhexyl)phthalate	1.39	1.22	7.684E-04	7.684E-04
3,3'-Dichlorobenzidine	ND	0.335	ND	ND
Benz(a)anthracene	ND	0.452	ND	ND
Chrysene	ND	0.488	ND	ND
Di-n-octylphthalate	0.348	0.312	1.924E-04	1.924E-04
7,12-Dimethylbenz(a)anthracene	ND	0.461	ND	ND
Benzo(b)fluoranthene (a)	ND	0.278	ND	ND
Benzo(k)fluoranthene (a)	ND	0.581	ND	ND
Benz(a)pyrene	ND	0.329	ND	ND
3-Methylcholanthrene	ND	1.17	ND	ND
Indeno(1,2,3-cd)pyrene	ND	0.219	ND	ND
Dibenz(a,h)anthracene	ND	0.246	ND	ND
Benzo(g,h,i)perylene	ND	0.236	ND	ND

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

TABLE F-4. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANKParticulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected

on filter and resin trap Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

	Background - Amount	Background - Detection Limit,	Background - Concentration,	Reagent Blank - Amount	Reagent Blank - Detection Limit,	Field Blank - Amount	Field Blank - Detection Limit,
Analyte	Detected, ug	бп	mg/m³	Detected, ug	Вn	Detected, ug	бn
N-Nitrosodimethylamine	QN	0.348	QN	QN	0.348	QN	0.348
Pyridine	QN	1.02	ON	QN	1.02	ND	1.02
2-Picoline	QN	1.06	ON	QN	1.06	QN	1.06
Methyl methanesulfonate	QN	0.401	ND	QN	0.401	QN	0.401
N-Nitrosomethylethylamine	QN	0.796	ON	QN	0.796	QN	0.796
N-Nitrosodiethylamine	ΔN	0.85	QN	QN	0.85	QN	0.85
Ethyl methanesulfonate	QN	0.391	ON	QN	0.391	QN	0.391
Phenol	QN	0.25	QN	QN	0.25	QN	0.25
Aniline	QN	0.399	ON	QN	0.399	ND	0.399
bis(2-Chloroethyl)ether	QN	0.312	ON	QN	0.312	QN	0.312
Pentachloroethane	ON	0.721	ON	QN	0.721	ND	0.721
2-Chlorophenol	Q	0.159	ON	QN	0.159	ND	0.159
1,3-Dichlorobenzene	QN	0.307	ON	QN	0.307	ON	0.307
1,4-Dichlorobenzene	QN	0.616	ON	DN	0.616	ND	0.616
Benzyl alcohol	QN	0.697	ON	QN	0.697	ND	0.697
2-Methylphenol	Q	0.561	ON	QN	0.561	ND	0.561
1,2-Dichlorobenzene	QN	0.446	ON	DN	0.446	ND	0.446
bis(2-Chloroisopropyl)ether	ON	0.376	ON	QN	0.376	ON	0.376
o-Toluidine	ND	0.396	ON	QN	0.396	ND	0.396
4-Methylphenol/3-Methylphenol	QN	0.474	ON	QN	0.474	ND	0.474
N-Nitroso-di-n-propylamine	QN	0.281	ND	QN	0.281	QN	0.281
Acetophenone	0.582	0.295	1.897E-04	0.578	0.295	ND	0.295
N-Nitrosomorpholine	QN	0.899	ON	DN	0.899	DN	0.899
N-Nitrosopyrrolidine	Q	1.19	ON	QN	1.19	QN	1.19
Hexachloroethane	Q	0.494	ON	QN	0.494	QN	0.494
Nitrobenzene	Q	0.891	ND	DN	0.891	ON	0.891
N-Nitrosopiperidine	QN	0.729	ON	QN	0.729	QN	0.729
Isophorone	2	0.214	QN	QN	0.214	QN	0.214
2,4-Dimethylphenol	QN	0.337	ON	ND	0.337	ND	0.337
2-Nitrophenol	QN	0.536	Q	ND	0.536	ND	0.536
bis(2-Chloroethoxy)methane	QN	0.391	ON	QN	0.391	QN	0.391
Benzoic acid	Q	36.6	Q	ΩN	36.6	ND	36.6

TABLE F-4. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

Analyte	Background - Amount Detected: ug	Background - Detection Limit, ug	Background - Concentration, mg/m³	Reagent Blank - Amount Detected, ug	Reagent Blank - Detection Limit,	Field Blank - Amount Detected, ug	Field Blank - Detection Limit, uq
2,4-Dichlorophenol	QN	0.49	QN	QN	0.49	QN	0.49
1,2,4-Trichlorobenzene	QN	0.353	QN	QN	0.353	QN	0.353
Naphthalene	QN	0.447	QN	QN	0.447	QN	0.447
p-Chloroaniline	QN	0.322	ND	QN	0.322	QN	0.322
2,6-Dichlorophenol	QN	0.344	ND	QN	0.344	ND	0.344
Hexachloropropene	QN	0.565	ND	QN	0.565	ON	0.565
Hexachlorobutadiene	QN	0.51	QN	QN	0.51	ND	0.51
Dimethylphenethylamine	QN	20.4	ND	QN	20.4	QN	20.4
N-Nitroso-di-n-butylamine	QN	0.374	QN	QN	0.374	QN	0.374
4-Chloro-3-methylphenol	QN	0.567	ND	QN	0.567	QN	0.567
Safrole	ON	0.711	ND	QN	0.711	QN	0.711
2-Methylnaphthalene	QN	0.359	QN	ΩN	698.0	QN	0.359
1,2,4,5-Tetrachlorobenzene	QN	0.546	ND	QN	0.546	QN	0.546
Hexachlorocyclopentadiene	QN	11.1	ND	QN	11.1	QN	11.1
2,4,6-Trichlorophenol	QN	0.631	QN	QN	0.631	QN	0.631
2,4,5-Trichlorophenol	QN	0.536	QN	QN	983.0	ND	0.536
Isosafrole	ND	1.08	ND	QN	1.08	ND	1.08
2-Chloronaphthalene	QN	0.564	ND	QN	0.564	ND	0.564
2-Nitroaniline	QN	0.358	QN	an	0.358	ND	0.358
1,4-Naphthoquinone	QN	1	ND	QN	1	ND	1
Dimethylphthalate	ND	0.291	ND	QN	0.291	ND	0.291
1,3-Dinitrobenzene	ND	0.837	ND	QN	0.837	ND	0.837
2,6-Dinitrotoluene	ON	0.704	ND	ON	0.704	ND	0.704
Acenaphthylene	ON	0.327	ND	ND	0.327	ON	0.327
3-Nitroaniline	ON	0.881	ND	QN	0.881	ON	0.881
4-Nitrophenol	ON	30.7	ND	ND	30.7	QN	30.7
2,4-Dinitrophenol	ON	31.5	ND	ΩN	31.5	ND	31.5
Acenaphthene	ND	0.36	ND	QN	0.36	QN	0.36
2,4-Dinitrotoluene	ND	0.445	ND	ON	0.445	ON	0.445
Dibenzofuran	QN	0.244	ND	QN	0.244	Q	0.244
Pentachlorobenzene	ΩN	0.674	Q	ND	0.674	Ω	0.674
1-Naphthylamine	QN	1.76	QN	ND	1.76	Ω	1.76

TABLE F-4. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK PArticulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected

on filter and resin trap

Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

	Background -	Background -	Background -	Reagent Blank -		Field Blank -	Field Blank -
Analyte	Amount Detected, ug	Detection Limit, ug	Concentration, mg/m³	Amount Detected, ug	Detection Limit, ug	Amount Detected, ug	Detection Limit, ug
2-Naphthylamine	QN	1.56	QN	QN	1.56	QN	1.56
2,3,4,6-Tetrachlorophenol	QN	0.714	QV	QN	0.714	QN	0.714
Diethylphthalate	QN	0.26	ON	QN	0.26	QN	0.26
4-Chlorophenylphenyl ether	QN	0.283	QN	QN	0.283	QN	0.283
Fluorene	QN	0.34	ON	QN	0.34	ND	0.34
5-Nitro-o-toluidine	QN	0.363	QN	QN	0.363	QN	0.363
4-Nitroaniline	QN	0.775	ND	QN	0.775	ON	0.775
4,6-Dinitro-2-methylphenol	S	27.2	QN	QN	27.2	ON	27.2
Diphenylamine/N-NitrosoDPA	Q	0.368	QN	QN	0.368	QN	0.368
sym-Trinitrobenzene	QN	1.25	QN	QN	1.25	QN	1.25
Diallate	Q	0.475	QN	QN	0.475	DN	0.475
Phenacetin	QN	0.224	ON	QN	0.224	QN	0.224
4-Bromophenylphenyl ether	QN	0.689	ND	QN	0.689	QN	0.689
Hexachlorobenzene	QN	0.371	ON	QN	0.371	QN	0.371
4-Aminobiphenyl	QN	2.07	QN	QN	2.07	ON	2.07
Pronamide	ND	0.257	QN	QN	0.257	QN	0.257
Pentachlorophenol	QN	28.8	ON	QN	28.8	QN	28.8
Pentachloronitrobenzene	DN	1.34	ON	QN	1.34	QN	1.34
Phenanthrene	DN	0.61	ON	QN	0.61	ON	0.61
Anthracene	ND	0.366	QN	QN	0.366	QN	0.366
Carbazole	ND	0.245	ND	QN	0.245	QN	0.245
Di-n-butylphthalate	QN	0.17	ND	5.39	0.17	2.93	0.17
4-Nitroquinoline-1-oxide	QN	22.5	QN	QN	22.5	ON	22.5
Methapyrilene	DN	20.7	ON	QN	20.7	QN	20.7
Fluoranthene	QN	0.361	QN	QN	0.361	QN	0.361
Benzidine	ON	13.4	QN	DN	13.4	QN	13.4
Pyrene	QN	0.496	QN	QN	0.496	QN	0.496
p-Dimethylaminoazobenzene	QN	0.368	QN	ON	0.368	QN	0.368
Chlorobenzilate	QN	0.512	ON	DN	0.512	QN	0.512
Kepone	QN	18.8	ON	ON	18.8	QΝ	18.8
Butylbenzylphthalate	ON	0.205	QN	ON	0.205	0.514	0.205
3,3'-Dimethylbenzidine	QN	1.98	QN	QN	1.98	QN	1.98

TABLE F-4. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK
Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap
Compounds below the DLs are listed as nondetected (ND)
Analyzed by: Radian International LLC

2-Acetylaminofluorene ND 0.312 bis(2-Ethylhexyl)phthalate 65.6 1.22 3,3'-Dichlorobenzidine ND 0.335 Benz(a)anthracene ND 0.462 Chrysene ND 0.312 Di-n-octylphthalate ND 0.461 Z,12-Dimethylbenz(a)anthracene ND 0.461 Benzo(b)fluoranthene (a) ND 0.278 Benzo(k)fluoranthene (a) ND 0.581 Benz(a)pyrene ND 0.329 3-Methylcholanthrene ND 1.17		ND 2.139E-02 ND	Q Q Q Q	0.342	Detected, ug	Detection Limit, ug
llate 65.6 ND ND ND ND Anthracene ND ND Anthracene ND ND (a) ND ND ND ND ND ND ND ND		2.139E-02 ND	ON ON ON	2.0.0	ND	0.312
anthracene ND		QN	QN	1.22	2.56	1.22
ND N			QN	0.335	ND	0.335
ND ND anthracene ND ND (a) ND (a) ND (a) ND (a) ND ND (a) ND ND ND ND ND ND		ND		0.452	ND	0.452
Anthracene ND (a) (b) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d		QN	QN	0.488	ND	0.488
(a) ND (a) ND (b) ND (c) ND (c) ND (d) ND		QN	ND	0.312	ND	0.312
(a) ND ND ND ND ND ND ND ND ND	QN	QN	ND	0.461	ND	0.461
(a) ND ND ND ND ND ND		QN	ND	0.278	ND	0.278
DN ON		QN	ND	0.581	ND	0.581
QN		QN	QN	0.329	ND	0.329
	1.17 ND 1.17	QN	ND	1.17	ND	1.17
Indeno(1,2,3-cd)pyrene ND 0.219		QN	ND	0.219	ND	0.219
Dibenz(a,h)anthracene ND 0.246		QN	ND	0.246	ND	0.246
Benzo(g,h,i)perylene 0.236	ND 0.236	QN	QN	0.236	ON	0.236

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

TABLE F-5. AEC - RUN NO. 1-2 GB TEST (30 MARCH 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

	A -Detection	Run 2 Train A -Detection	Detection	Average Maximum Detection Limit - Concentration,	Average Minimum Detection Limit - Concentration,
Analyte	Limit, ug	Limit, ug	Limit, ug	mg/m ³	mg/m³
N-Nitrosodimethylamine	0.348	0.348	0.348	3.591E-04	3.591E-04
Pyridine	1.02	1.02	1.02	1.053E-03	1.053E-03
2-Picoline	1.06	1.06	1.06	1.094E-03	1.094E-03
Methyl methanesulfonate	0.401	0.401	0.401	4.138E-04	4.138E-04
N-Nitrosomethylethylamine	0.796	0.796	0.796	8.214E-04	8.214E-04
N-Nitrosodiethylamine	0.85	0.85	0.85	8.771E-04	8.771E-04
Ethyl methanesulfonate	0.391	0.391	0.391	4.035E-04	4.035E-04
Phenol	0.25	0.25	0.25	2.580E-04	2.580E-04
Aniline	0.399	0.399	0.399	4.117E-04	4.117E-04
bis(2-Chloroethyl)ether	0.312	0.312	0.312	3.220E-04	3.220E-04
Pentachloroethane	0.721	0.721	0.721	7.440E-04	7.440E-04
2-Chlorophenol	0.159	0.159	0.159	1.641E-04	1.641E-04
1,3-Dichlorobenzene	0.307	0.307	0.307	3.168E-04	3.168E-04
1,4-Dichlorobenzene	0.616	0.616	0.616	6.357E-04	6.357E-04
Benzyl alcohol	0.697	0.697	0.697	7.192E-04	7.192E-04
2-Methylphenol	0.561	0.561	0.561	5.789E-04	5.789E-04
1,2-Dichlorobenzene	0.446	0.446	0.446	4.602E-04	4.602E-04
bis(2-Chloroisopropyl)ether	0.376	0.376	0.376	3.880E-04	3.880E-04
o-Toluidine	0.396	0.396	0.396	4.086E-04	4.086E-04
4-Methylphenol/3-Methylphenol	0.474	0.474	0.474	4.891E-04	4.891E-04
N-Nitroso-di-n-propylamine	0.281	0.281	0.281	2.900E-04	2.900E-04
Acetophenone	0.295	0.295	0.295	3.044E-04	3.044E-04
N-Nitrosomorpholine	0.899	0.899	0.899	9.277E-04	9.277E-04
N-Nitrosopyrrolidine	1.19	1.19	1.19	1.228E-03	1.228E-03
Hexachloroethane	0.494	0.494	0.494	5.098E-04	5.098E-04
Nitrobenzene	0.891	0.891	0.891	9.194E-04	9.194E-04
N-Nitrosopiperidine	0.729	0.729	0.729	7.523E-04	7.523E-04
Isophorone	0.214	0.214	0.214	2.208E-04	2.208E-04
2,4-Dimethylphenol	0.337	0.337	0.337	3.478E-04	3.478E-04
2-Nitrophenol	0.536	0.536	0.536	5.531E-04	5.531E-04
bis(2-Chloroethoxy)methane	0.391	0.391	0.391	4.035E-04	4.035E-04
Benzoic acid	36.6	36.6	36.6	3.777E-02	3.777E-02
2,4-Dichlorophenol	0.49	0.49	0.49	5.056E-04	5.056E-04
1,2,4-Trichlorobenzene	0.353	0.353	0.353	3.643E-04	3.643E-04
Naphthalene	0.447	0.447	0.447	4.613E-04	4.613E-04
p-Chloroaniline	0.322	0.322	0.322	3.323E-04	3.323E-04
2,6-Dichlorophenol	0.344	0.344	0.344	3.550E-04	3.550E-04
Hexachloropropene	0.565	0.565	0.565	5.830E-04	5.830E-04
Hexachlorobutadiene	0.505	0.505	0.505	5.263E-04	5.263E-04
Dimethylphenethylamine	20.4	20.4	20.4	2.105E-02	2.105E-02

TABLE F-5. AEC - RUN NO. 1-2 GB TEST (30 MARCH 1998)
Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

Analyte		Run 2 Train A -Detection Limit, ug	Run 1-2 Train B - Detection Limit, ug	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
N-Nitroso-di-n-butylamine	0.374	0.374	0.374	3.859E-04	3.859E-04
4-Chloro-3-methylphenol	0.567	0.567	0.567	5.851E-04	5.851E-04
Safrole	0.711	0.711	0.711	7.337E-04	7.337E-04
2-Methylnaphthalene	0.359	0.359	0.359	3.705E-04	3.705E-04
1,2,4,5-Tetrachlorobenzene	0.546	0.546	0.546	5.634E-04	5.634E-04
Hexachlorocyclopentadiene	11.1	11.1	11.1	1.145E-02	1.145E-02
2,4,6-Trichlorophenol	0.631	0.631	0.631	6.511E-04	6.511E-04
2,4,5-Trichlorophenol	0.536	0.536	0.536	5.531E-04	5.531E-04
Isosafrole	1.08	1.08	1.08	1.114E-03	1.114E-03
2-Chloronaphthalene	0.564	0.564	0.564	5.820E-04	5.820E-04
2-Nitroaniline	0.358	0.358	0.358	3.694E-04	3.694E-04
1,4-Naphthoquinone	1	1	1	1.032E-03	1.032E-03
Dimethylphthalate	0.291	0.291	0.291	3.003E-04	3.003E-04
1,3-Dinitrobenzene	0.837	0.837	0.837	8.637E-04	8.637E-04
2,6-Dinitrotoluene	0.704	0.704	0.704	7.265E-04	7.265E-04
Acenaphthylene	0.327	0.327	0.327	3.374E-04	3.374E-04
3-Nitroaniline	0.881	0.881	0.881	9.091E-04	9.091E-04
4-Nitrophenol	30.7	30.7	30.7	3.168E-02	3.168E-02
2,4-Dinitrophenol	31.5	31.5	31.5	3.251E-02	3.251E-02
Acenaphthene	0.36	0.36	0.36	3.715E-04	3.715E-04
2,4-Dinitrotoluene	0.445	0.445	0.445	4.592E-04	4.592E-04
Dibenzofuran	0.244	0.244	0.244	2.518E-04	2.518E-04
Pentachlorobenzene	0.674	0.674	0.674	6.955E-04	6.955E-04
1-Naphthylamine	1.76	1.76	1.76	1.816E-03	1.816E-03
2-Naphthylamine	1.56	1.56	1.56	1.610E-03	1.610E-03
2,3,4,6-Tetrachlorophenol	0.714	0.714	0.714	7.368E-04	7.368E-04
Diethylphthalate	0.26	0.26	0.26	2.683E-04	2.683E-04
4-Chlorophenylphenyl ether	0.283	0.283	0.283	2.920E-04	2.920E-04
Fluorene	0.34	0.34	0.34	3.508E-04	3.508E-04
5-Nitro-o-toluidine	0.363	0.363	0.363	3.746E-04	3.746E-04
4-Nitroaniline	0.775	0.775	0.775	7.997E-04	7.997E-04
4,6-Dinitro-2-methylphenol	27.2	27.2	27.2	2.807E-02	2.807E-02
Diphenylamine/N-NitrosoDPA	0.368	0.368	0.368	3.797E-04	3.797E-04
sym-Trinitrobenzene	1.25	1.25	1.25	1.290E-03	1.290E-03
Diallate	0.475	0.475	0.475	4.902E-04	4.902E-04
Phenacetin	0.224	0.224	0.224	2.311E-04	2.311E-04
4-Bromophenylphenyl ether	0.689	0.689	0.689	7.110E-04	7.110E-04
Hexachlorobenzene	0.371	0.371	0.371	3.828E-04	3.828E-04
4-Aminobiphenyl	2.07	2.07	2.07	2.136E-03	2.136E-03
Pronamide	0.257	0.257	0.257	2.652E-04	2.652E-04

TABLE F-5. AEC - RUN NO. 1-2 GB TEST (30 MARCH 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

Analyte	11	Run 2 Train A -Detection Limit, ug	Run 1-2 Train B - Detection Limit, ug	Average Maximum Detection Limit - Concentration, mg/m ³	Average Minimum Detection Limit - Concentration, mg/m³
Pentachlorophenol	28.8	28.8	28.8	2.972E-02	2.972E-02
Pentachloronitrobenzene	1.34	1.34	1.34	1.383E-03	1.383E-03
Phenanthrene	0.61	0.61	0.61	6.295E-04	6.295E-04
Anthracene	0.366	0.366	0.366	3.777E-04	3.777E-04
Carbazole	0.245	0.245	0.245	2.528E-04	2.528E-04
Di-n-butylphthalate	0.17	0.17	0.17	1.754E-04	1.754E-04
4-Nitroquinoline-1-oxide	22.5	22.5	22.5	2.322E-02	2.322E-02
Methapyrilene	20.7	20.7	20.7	2.136E-02	2.136E-02
Fluoranthene	0.361	0.361	0.361	3.725E-04	3.725E-04
Benzidine	13.4	13.4	13.4	1.383E-02	1.383E-02
Pyrene	0.496	0.496	0.496	5.118E-04	5.118E-04
p-Dimethylaminoazobenzene	0.368	0.368	0.368	3.797E-04	3.797E-04
Chlorobenzilate	0.512	0.512	0.512	5.283E-04	5.283E-04
Kepone	18.8	18.8	18.8	1.940E-02	1.940E-02
Butylbenzylphthalate	0.205	0.205	0.205	2.115E-04	2.115E-04
3,3'-Dimethylbenzidine	1.98	1.98	1.98	2.043E-03	2.043E-03
2-Acetylaminofluorene	0.312	0.312	0.312	3.220E-04	3.220E-04
bis(2-Ethylhexyl)phthalate	1.22	1.22	1.22	1.259E-03	1.259E-03
3,3'-Dichlorobenzidine	0.335	0.335	0.335	3.457E-04	3.457E-04
Benz(a)anthracene	0.452	0.452	0.452	4.664E-04	4.664E-04
Chrysene	0.488	0.488	0.488	5.036E-04	5.036E-04
Di-n-octylphthalate	0.312	0.312	0.312	3.220E-04	3.220E-04
7,12-Dimethylbenz(a)anthracene	0.461	0.461	0.461	4.757E-04	4.757E-04
Benzo(b)fluoranthene (a)	0.278	0.278	0.278	2.869E-04	2.869E-04
Benzo(k)fluoranthene (a)	0.581	0.581	0.581	5.995E-04	5.995E-04
Benz(a)pyrene	0.329	0.329	0.329	3.395E-04	3.395E-04
3-Methylcholanthrene	1.17	1.17	1.17	1.207E-03	1.207E-03
Indeno(1,2,3-cd)pyrene	0.219	0.219	0.219	2.260E-04	2.260E-04
Dibenz(a,h)anthracene	0.246	0.246	0.246	2.538E-04	2.538E-04
Benzo(g,h,i)perylene	0.236	0.236	0.236	2.435E-04	2.435E-04

a

Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

GREEN STAR CLUSTER

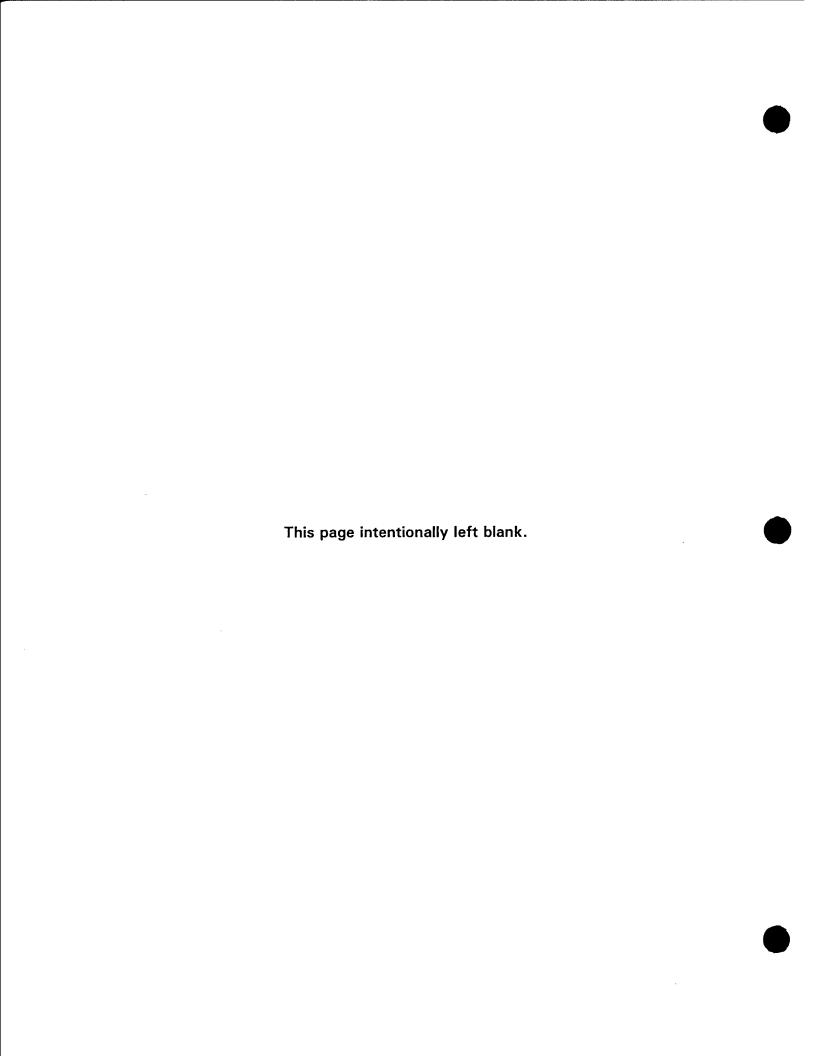


TABLE F-1. AEC - RUN NO. 1 GS TEST (31 MARCH 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

Analyzed by: Radian International LLC

	Run 1 Train A -	Run 1 Train	Run 1 Train A -	Run 1 Train B -	Run 1 Train	Run 1 Train B -	Average
	Amount	A -Detection	Concentration,	Amount	B -Detection	Concentration,	Concentration -
Analyte	Detected, ug	Limit, ug	mg/m³	Detected, ug	Limit, ug	mg/m³	Run 1, mg/m³
N-Nitrosodimethylamine	ND	0.348	ND	ND	0.348	ND	ND
Pyridine	ND	1.02	ND	ND	1.02	ND	ND
2-Picoline	ND	1.06	ND	ND	1.06	ND	ND
Methyl methanesulfonate	ND	0.401	ND	ND	0.401	ND	ND
N-Nitrosomethylethylamine	ND	0.796	ND	ND	0.796	ND	ND
N-Nitrosodiethylamine	ND	0.85	ND	ND	0.85	ND	ND
Ethyl methanesulfonate	ND	0.391	ND	ND	0.391	ND	ND
Phenol	ND	0.25	ND	ND	0.25	ND	ND
Aniline	ND	0.399	ND	ND	0.399	ND	ND
bis(2-Chloroethyl)ether	ND ND	0.312	ND ND	ND	0.312	ND	ND
Pentachloroethane	ND ND	0.721	ND ND	ND ND	0.721	ND	ND ND
2-Chlorophenol 1,3-Dichlorobenzene	ND ND	0.159 0.307	ND ND	ND ND	0.159 0.307	ND ND	ND ND
1,3-Dichlorobenzene	ND ND	0.307	ND ND	ND ND	0.307	ND ND	ND ND
Benzyl alcohol	ND ND	0.616	ND ND	ND	0.616	ND ND	ND ND
2-Methylphenol	ND	0.561	ND ND	ND	0.561	ND ND	ND ND
1,2-Dichlorobenzene	ND ND	0.361	ND ND	ND	0.361	ND ND	ND ND
bis(2-Chloroisopropyl)ether	ND	0.376	ND ND	ND	0.376	ND ND	ND
o-Toluidine	ND	0.396	ND	ND	0.396	ND	ND
4-Methylphenol/3-Methylphenol	ND	0.474	ND	ND	0.474	ND	ND
N-Nitroso-di-n-propylamine	ND	0.281	ND	ND	0.281	ND	ND
Acetophenone	1.34	0.295	5.246E-04	1.34	0.295	6.415E-04	5.830E-04
N-Nitrosomorpholine	ND	0.899	ND	ND	0.899	ND	ND
N-Nitrosopyrrolidine	ND	1.19	ND	ND	1.19	ND	ND
Hexachloroethane	ND	0.494	ND	ND	0.494	ND	ND
Nitrobenzene	ND	0.891	ND	ND	0.891	ND	ND
N-Nitrosopiperidine	ND	0.729	ND	ND	0.729	ND	ND
Isophorone	ND	0.214	ND	ND ND	0.214	ND	ND
2,4-Dimethylphenol	ND	0.337	ND	ND	0.337	ND	ND
2-Nitrophenol bis(2-Chloroethoxy)methane	ND ND	0.536 0.391	ND ND	ND ND	0.536	ND ND	ND ND
Benzoic acid	ND ND	36.6	ND ND	ND ND	0.391 36.6	ND ND	ND ND
2,4-Dichlorophenol	ND ND	0.49	ND ND	ND	0.49	ND ND	ND ND
1,2,4-Trichlorobenzene	ND	0.353	ND ND	ND	0.353	ND	ND
Naphthalene	1.58	0.447	6.185E-04	1.63	0.447	7.803E-04	6.994E-04
p-Chloroaniline	ND	0.322	ND	ND	0.322	ND	ND
2,6-Dichlorophenol	ND	0.344	ND	ND	0.344	ND	ND
Hexachloropropene	ND	0.565	ND	ND	0.565	ND	ND
Hexachlorobutadiene	ND	0.51	ND	ND	0.51	ND	ND
Dimethylphenethylamine	ND	20.4	ND	ND	20.4	ND	ND
N-Nitroso-di-n-butylamine	ND	0.374	ND	ND	0.374	ND	ND
4-Chloro-3-methylphenol	ND	0.567	ND	ND	0.567	ND	ND
Safrole	ND	0.711	ND ND	ND	0.711	ND	ND
2-Methylnaphthalene	0.639	0.359	2.501E-04	0.616	0.359	2.949E-04	2.725E-04
1,2,4,5-Tetrachlorobenzene	ND	0.546	ND ND	ND	0.546	ND	ND ND
Hexachlorocyclopentadiene 2,4,6-Trichlorophenol	ND	11.1	ND ND	ND	11.1	ND	ND
2,4,5-Trichlorophenol	ND ND	0.631	ND ND	ND	0.631	ND	ND
Isosafrole	ND ND	0.536 1.08	ND ND	ND ND	0.536 1.08	ND ND	ND ND
2-Chloronaphthalene	ND ND	0.564	ND ND	ND ND	0.564	ND ND	ND ND
2-Nitroaniline	ND	0.358	ND ND	ND ND	0.358	ND ND	ND ND
1,4-Naphthoquinone	ND	1	ND ND	ND	1	ND	ND ND
Dimethylphthalate	ND	0.291	ND ND	ND	0.291	ND ND	ND
1,3-Dinitrobenzene	ND	0.837	ND	ND	0.837	ND	ND
2,6-Dinitrotoluene	ND	0.704	ND	ND	0.704	ND	ND
Acenaphthylene	ND	0.327	ND	ND	0.327	ND	ND
3-Nitroaniline	ND	0.881	ND	ND	0.881	ND	ND

TABLE F-1. AEC - RUN NO. 1 GS TEST (31 MARCH 1998)
Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap
Compounds below the DLs are listed as nondetected (ND)
Analyzed by: Radian International LLC

4-Chlorophenylphenyl ether ND	Analyte	Run 1 Train A - Amount Detected, ug	Run 1 Train A -Detection Limit, ug	Run 1 Train A - Concentration, mg/m³	Run 1 Train B - Amount Detected, ug	Run 1 Train B -Detection Limit, ug	Run 1 Train B - Concentration, mg/m ³	Average Concentration - Run 1, mg/m³
Acenaphthene	4-Nitrophenol	ND	30.7	ND	ND	30.7	ND	ND
2.4-Dinitrotoluene	2,4-Dinitrophenol	ND	31.5	ND	ND	31.5	ND	ND
Dibenzofuran	Acenaphthene	ND	0.36	ND	ND	0.36	ND	ND
Pentachlorobenzene	2,4-Dinitrotoluene	ND	0.445	ND	ND	0.445	ND	ND
F-Naphthylamine	Dibenzofuran	ND	0.244	ND	ND	0.244	ND	ND
2-Naphthylamine ND 1.56 ND ND 1.56 ND ND 2.3,4,6-Tetrachlorophenol ND 0.714 ND ND 0.714 ND ND 0.714 ND ND DD DD DD DD DD DD DD 0.26 1.001E-03 8.956E-4 4.00 ND 0.283 ND	Pentachlorobenzene	ND	0.674	ND	ND	0.674	ND	ND
2.3.4.6-Tetrachtorophenol ND 0.714 ND ND 0.714 ND ND	1-Naphthylamine	ND	1.76	ND	ND	1.76	ND	ND
2.3.4.6-Tetrachtorophenol ND 0.714 ND ND 0.714 ND ND		ND	1.56	ND	ND	1.56	ND	ND
Diethyphthalate			0.714	ND	ND	0.714	ND	ND
## Chlorophenylphenyl ether ND		2.02	0.26	7.908E-04	2.09	0.26	1.001E-03	8.956E-04
Fluorene						0.283	ND	
5-Nitro-o-toluidine ND 0.363 ND ND 0.363 ND ND 4-Nitroaniline ND 0.775 ND ND 0.775 ND ND 4-B-Dintro-2-methylphenol ND 27.2 ND ND 27.2 ND ND Diphenylamine/N-NitrosoDPA ND 0.368 ND ND ND DD ND DD ND DD ND ND </td <td></td> <td></td> <td><u> </u></td> <td></td> <td>ļ</td> <td></td> <td></td> <td></td>			<u> </u>		ļ			
A-Nitroaniline								
4,6-Dinitro-2-methylphenol ND 27.2 ND ND 27.2 ND ND Diphenylamine/N-NitrosoDPA ND 0.368 ND ND 0.368 ND ND ND Sym-Trinitroberzene ND 1.25 ND ND ND ND Biallate ND 0.475 ND ND 0.475 ND ND Phenacetin ND 0.224 ND ND 0.224 ND ND Herachlorophenylphenyl ether ND 0.689 ND ND 0.689 ND ND Hexachlorobenzene ND 0.371 ND ND 0.689 ND ND Hexachlorophenol ND 2.07 ND ND 0.0371 ND ND 2.07 ND ND Pentachlorophenol ND 28.8 ND ND 0.257 ND								
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Phenanthrene			 					
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Benz(a)pyrene								
3-Methylcholanthrene ND 1.17 ND ND 1.17 ND ND ND								
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TABLE F-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK
Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap
Compounds below the DLs are listed as nondetected (ND)
Analyzed by: Radian International LLC

Analyte	Background - Amount Detected, ug	Background - Detection Limit, ug	Background - Concentration, mg/m³	Reagent Blank - Amount Detected, ug	Reagent Blank - Detection Limit, ug	Field Blank - Amount Detected, ug	Field Blank - Detection Limit, ug
N-Nitrosodimethylamine	QN	0.348	QN	QN	0.348	QN	0.348
Pyridine	QN	1.02	ND	QN	1.02	QN	1.02
2-Picoline	ΠN	1.06	ND	QN	1.06	DN	1.06
Methyl methanesulfonate	QN	0.401	ND	GN	0.401	ND	0.401
N-Nitrosomethylethylamine	QN	962'0	ND	GN	0.796	DN	0.796
N-Nitrosodiethylamine	QΝ	0.85	QN	ΩN	0.85	QN	0.85
Ethyl methanesulfonate	QN	0.391	ND	QN	0.391	QN	0.391
Phenol	QN	0.25	ND	QN	0.25	QN	0.25
Aniline	ΩN	0.399	ND	QN	0.399	QN	0.399
bis(2-Chloroethyl)ether	QN	0.312	ND	ND	0.312	QN	0.312
Pentachloroethane	ΠN	0.721	ND	QN	0.721	ND	0.721
2-Chlorophenol	QN	0.159	ND	ND	0.159	ND	0.159
1,3-Dichlorobenzene	QN	0.307	ND	QN	0.307	ND	0.307
1,4-Dichlorobenzene	QN	0.616	ND	QN	0.616	ND	0.616
Benzyl alcohol	ΩN	0.697	ND	QN	0.697	ND	0.697
2-Methylphenol	ON	0.561	ND	QN	0.561	DN	0.561
1,2-Dichlorobenzene	QN	0.446	ND	QN	0.446	DN	0.446
bis(2-Chloroisopropyl)ether	QN	0.376	ND	ND	0.376	DN	0.376
o-Toluidine	ND	0.396	ND	QN	0.396	DN	0.396
4-Methylphenol/3-Methylphenol	QN	0.474	ND	QN	0.474	ND	0.474
N-Nitroso-di-n-propylamine	QN	0.281	ND	QN	0.281	ND	0.281
Acetophenone	0.904	0.295	2.708E-04	0.578	0.295	DN	0.295
N-Nitrosomorpholine	ON	0.899	ND	QN	0.899	ND	0.899
N-Nitrosopyrrolidine	ON	1.19	ND	ON	1.19	ND	1.19
Hexachloroethane	ON	0.494	ND	ON	0.494	QN	0.494
Nitrobenzene	QN	0.891	QN	QN	0.891	DN	0.891
N-Nitrosopiperidine	ON	0.729	ND	QN	0.729	QN	0.729
Isophorone	QN	0.214	QN	DN	0.214	ND	0.214
2,4-Dimethylphenol	QN	0.337	ON	QN	0.337	ON	0.337
2-Nitrophenol	QN	0.536	ND	ON	0.536	QN	0.536
bis(2-Chloroethoxy)methane	QN	0.391	QN	QN	0.391	QN	0.391
Benzoic acid	Q	36.6	ON	ND	36.6	QN	36.6

TABLE F-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

	Background -	Background -	Background -	Reagent Blank -	Reagent Blank -	Field Blank -	Field Blank -
Analyte	Amount Detected, ua	Detection Limit,	Concentration, mg/m³	Amount Detected, ug	Detection Limit, ug	Amount Detected, ug	Detection Limit, ug
2.4-Dichlorophenol	QN	0.49	QN		0.49	ΩN	0.49
1.2.4-Trichlorobenzene	QN	0.353	ON	QN	0.353	QN	0.353
Naphthalene	-	0.447	2.995E-04	QN	0.447	QN	0.447
p-Chloroaniline	QN	0.322	Q	QN	0.322	QN	0.322
2,6-Dichlorophenol	S	0.344	QN	QN	0.344	QN	0.344
Hexachloropropene	QN	0.565	QN	QN	0.565	QN	0.565
Hexachlorobutadiene	QN	0.51	ND	QN	0.51	QN	0.51
Dimethylphenethylamine	QN	20.4	QN	QN	20.4	QN	20.4
N-Nitroso-di-n-butylamine	Q.	0.374	Q	QN	0.374	QN	0.374
4-Chloro-3-methylphenol	QN	0.567	QN	QN	0.567	QN	0.567
Safrole	QN	0.711	QN	QN	0.711	QN	0.711
2-Methylnaphthalene	Q	0.359	QN	QN	0.359	QN	0.359
1,2,4,5-Tetrachlorobenzene	Q	0.546	QN	QN	0.546	QN	0.546
Hexachlorocyclopentadiene	QV	11.1	QN	QN	11.1	QN	11.1
2,4,6-Trichlorophenol	QN	0.631	QN	ND	0.631	ON	0.631
2,4,5-Trichlorophenol	Q.	0.536	QN	QN	0.536	QN	0.536
Isosafrole	2	1.08	QN	ON	1.08	QN	1.08
2-Chloronaphthalene	Q	0.564	QN	QN	0.564	QN	0.564
2-Nitroaniline	QV	0.358	QN	DN	0.358	QN	0.358
1,4-Naphthoquinone	QN	1	QN	DN	4	ON	-
Dimethylphthalate	QN	0.291	QN	DN	0.291	QN	0.291
1,3-Dinitrobenzene	QN	0.837	ND	QN	0.837	QN	0.837
2,6-Dinitrotoluene	QN	0.704	QN	QN	0.704	QN	0.704
Acenaphthylene	QN	0.327	QN	DN	0.327	QN	0.327
3-Nitroaniline	ON	0.881	QN	QN	0.881	QN	0.881
4-Nitrophenol	QN	30.7	QN	DN	30.7	QN	30.7
2,4-Dinitrophenol	Q	31.5	ΩN	QN	31.5	DN	31.5
Acenaphthene	QN	0.36	ΩN	QN	0.36	QN	0.36
2,4-Dinitrotoluene	QN	0.445	QN	QN	0.445	Q	0.445
Dibenzofuran	ON	0.244	QN	ON	0.244	QN	0.244
Pentachlorobenzene	DN	0.674	QN	ON	0.674	QN	0.674
1-Naphthylamine	QN	1.76	QN	QN	1.76	Ω	1.76

TABLE F-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected

on filter and resin trap Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

Analyte	Background - Amount Detected, ug	Background - Detection Limit, ug	Background - Concentration, mg/m³	Reagent Blank - Amount Detected, ug	Reagent Blank - Detection Limit, ug	Field Blank - Amount Detected, ug	Field Blank - Detection Limit, ug
2-Naphthylamine	QN	1.56	DN	ND	1.56	DN	1.56
2,3,4,6-Tetrachlorophenol	DN	0.714	QN	QN	0.714	ON	0.714
Diethylphthalate	1.16	0.26	3.475E-04	ND	0.26	ND	0.26
4-Chlorophenylphenyl ether	ND	0.283	QN	QN	0.283	ON	0.283
Fluorene	ND	0.34	ND	ΩN	0.34	ND	0.34
5-Nitro-o-toluidine	QN	0.363	QN	QN	0.363	ON	0.363
4-Nitroaniline	ON	0.775	ND	QN	0.775	ON	0.775
4,6-Dinitro-2-methylphenol	QN	27.2	ND	QN	27.2	ND	27.2
Diphenylamine/N-NitrosoDPA	QN	0.368	ND	QN	0.368	ND	0.368
sym-Trinitrobenzene	QN	1.25	ND	QN	1.25	ON	1.25
Diallate	QN	0.475	QN	an	0.475	DN	0.475
Phenacetin	ON	0.224	ON	QN	0.224	ND	0.224
4-Bromophenylphenyl ether	QN	0.689	ND	QN	0.689	ON	0.689
Hexachlorobenzene	ON	0.371	ND	QN	0.371	QN	0.371
4-Aminobiphenyl	QN	2.07	ND	QN	2.07	ND	2.07
Pronamide	QN	0.257	ND	QN	0.257	ON	0.257
Pentachlorophenol	ON	28.8	ND	QN	28.8	ON	28.8
Pentachloronitrobenzene	QN	1.34	ND	QN	1.34	ND	1.34
Phenanthrene	ON	0.61	ND	QN	0.61	ON	0.61
Anthracene	ND	0.366	ON	QN	0.366	ON	0.366
Carbazole	ND	0.245	ND	ON	0.245	ON	0.245
Di-n-butylphthalate	4.53	0.17	1.357E-03	5.39	0.17	2.93	0.17
4-Nitroquinoline-1-oxide	Q	22.5	QN	Q	22.5	8	22.5
Methapyrilene	QN	20.7	ND	ON	20.7	Q	20.7
Fluoranthene	ND	0.361	QN	ND	0.361	ND	0.361
Benzidine	QN	13.4	ON	ND	13.4	Q	13.4
Pyrene	ON	0.496	QN	ON	0.496	ND	0.496
p-Dimethylaminoazobenzene	ND	0.368	ON	QN	0.368	QN	0.368
Chlorobenzilate	ND	0.512	ND	ON	0.512	ND	0.512
Kepone	QN	18.8	QN	QN	18.8	QN	18.8
Butyibenzyiphthalate	Q	0.205	ND	ON	0.205	0.514	0.205
3,3'-Dimethylbenzidine	ND	1.98	ND	QN	1.98	QN	1.98

TABLE F-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

	Background - Amount	Background - Detection Limit,	Background - Concentration,	Reagent Blank - Amount	Reagent Blank - Reagent Blank - Amount Detection Limit,	Field Blank - Amount	Field Blank - Detection Limit,
Analyte	Detected, ug	бn	mg/m³	Detected, ug	бn	Detected, ug	бn
2-Acetylaminofluorene	QN	0.312	QN	QN	0.312	QN	0.312
bis(2-Ethylhexyl)phthalate	QN	1.22	QN	QN	1.22	2.56	1.22
3,3'-Dichlorobenzidine	QN	0.335	QN	QN	0.335	ND	0.335
Benz(a)anthracene	QN	0.452	QN	QN	0.452	QN	0.452
Chrysene	QN	0.488	QN	QN	0.488	ND	0.488
Di-n-octylphthalate	QN	0.312	QN	QN	0.312	ON	0.312
7,12-Dimethylbenz(a)anthracene	Q	0.461	QN	QN	0.461	ND	0.461
Benzo(b)fluoranthene (a)	QN	0.278	QN	QN	0.278	ND	0.278
Benzo(k)fluoranthene (a)	QN	0.581	QN	DN	0.581	ON	0.581
Benz(a)pyrene	QN	0.329	QN	QN	0.329	ON	0.329
3-Methylcholanthrene	QN	1.17	QN	QN	1.17	ND	1.17
Indeno(1,2,3-cd)pyrene	QN	0.219	QN	ND	0.219	ND	0.219
Dibenz(a,h)anthracene	QN	0.246	QN	QN	0.246	ON	0.246
Benzo(g,h,i)perylene	QN	0.236	QN	QN	0.236	DN	0.236

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

TABLE F-3. AEC - RUN NO. 1 GS TEST (31 MARCH 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

Proper and seconds	 1	Run 1 Train B -Detection Limit, ug	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
N-Nitrosodimethylamine	0.348	0.348	1.499E-04	1.499E-04
Pyridine	1.02	1.02	4.393E-04	4.393E-04
2-Picoline	1.06	1.06	4.566E-04	4.566E-04
Methyl methanesulfonate	0.401	0.401	1.727E-04	1.727E-04
N-Nitrosomethylethylamine	0.796	0.796	3.429E-04	3.429E-04
N-Nitrosodiethylamine	0.85	0.85	3.661E-04	3.661E-04
Ethyl methanesulfonate	0.391	0.391	1.684E-04	1.684E-04
Phenol	0.25	0.25	1.077E-04	1.077E-04
Aniline	0.399	0.399	1.719E-04	1.719E-04
bis(2-Chloroethyl)ether	0.312	0.312	1.344E-04	1.344E-04
Pentachloroethane	0.721	0.721	3.105E-04	3.105E-04
2-Chlorophenol	0.159	0.159	6.848E-05	6.848E-05
1,3-Dichlorobenzene	0.307	0,307	1.322E-04	1.322E-04
1,4-Dichlorobenzene	0.616	0.616	2.653E-04	2.653E-04
Benzyl alcohol	0.697	0.697	3.002E-04	3.002E-04
2-Methylphenol	0.561	0.561	2.416E-04	2.416E-04
1,2-Dichlorobenzene	0.446	0.446	1.921E-04	1.921E-04
bis(2-Chloroisopropyl)ether	0.376	0.376	1.619E-04	1.619E-04
o-Toluidine	0.396	0.396	1.706E-04	1.706E-04
4-Methylphenol/3-Methylphenol	0.474	0.474	2.042E-04	2.042E-04
N-Nitroso-di-n-propylamine	0.281	0.281	1.210E-04	1.210E-04
Acetophenone	0.295	0.295	1.271E-04	1.271E-04
N-Nitrosomorpholine	0.899	0.899	3.872E-04	3.872E-04
N-Nitrosopyrrolidine	1.19	1.19	5.126E-04	5.126E-04
Hexachloroethane	0.494	0.494	2.128E-04	2.128E-04
Nitrobenzene	0.891	0.891	3.838E-04	3.838E-04
N-Nitrosopiperidine	0.729	0.729	3.140E-04	3.140E-04
Isophorone	0.214	0.214	9.217E-05	9.217E-05
2,4-Dimethylphenol	0.337	0.337	1.452E-04	1.452E-04
2-Nitrophenol	0.536	0.536	2.309E-04	2.309E-04
bis(2-Chloroethoxy)methane	0.391	0.391	1.684E-04	1.684E-04
Benzoic acid	36.6	36.6	1.576E-02	1.576E-02
2,4-Dichlorophenol	0.49	0.49	2.111E-04	2.111E-04
1,2,4-Trichlorobenzene	0.353	0.353	1.520E-04	1.520E-04
Naphthalene	0.447	0.447	1.925E-04	1.925E-04
p-Chloroaniline	0.322	0.322	1.387E-04	1.387E-04
2,6-Dichlorophenol	0.344	0.344	1.482E-04	1.482E-04
Hexachloropropene	0.565	0.565	2.434E-04	2.434E-04
Hexachlorobutadiene	0.51	0.51	2.197E-04	2.197E-04
Dimethylphenethylamine	20.4	20.4	8.787E-03	8.787E-03

TABLE F-3. AEC - RUN NO. 1 GS TEST (31 MARCH 1998)Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

	A -Detection	Run 1 Train B -Detection Limit, ug	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
Analyte	Limit, ug			
N-Nitroso-di-n-butylamine	0.374	0.374	1.611E-04	1.611E-04
4-Chloro-3-methylphenol	0.567	0.567	2.442E-04	2.442E-04
Safrole	0.711	0.711	3.062E-04	3.062E-04
2-Methylnaphthalene	0.359	0.359	1.546E-04	1.546E-04
1,2,4,5-Tetrachlorobenzene	0.546	0.546	2.352E-04	2.352E-04
Hexachlorocyclopentadiene	11.1	11.1	4.781E-03	4.781E-03
2,4,6-Trichlorophenol	0.631	0.631	2.718E-04	2.718E-04
2,4,5-Trichlorophenol	0.536	0.536	2.309E-04	2.309E-04
Isosafrole	1.08	1.08	4.652E-04	4.652E-04
2-Chloronaphthalene	0.564	0.564	2.429E-04	2.429E-04
2-Nitroaniline	0.358	0.358	1.542E-04	1.542E-04
1,4-Naphthoquinone	1	1	4.307E-04	4.307E-04
Dimethylphthalate	0.291	0.291	1.253E-04	1.253E-04
1,3-Dinitrobenzene	0.837	0.837	3.605E-04	3.605E-04
2,6-Dinitrotoluene	0.704	0.704	3.032E-04	3.032E-04
Acenaphthylene	0.327	0.327	1.408E-04	1.408E-04
3-Nitroaniline	0.881	0.881	3.795E-04	3.795E-04
4-Nitrophenol	30.7	30.7	1.322E-02	1.322E-02
2,4-Dinitrophenol	31.5	31.5	1.357E-02	1.357E-02
Acenaphthene	0.36	0.36	1.551E-04	1.551E-04
2,4-Dinitrotoluene	0.445	0.445	1.917E-04	1.917E-04
Dibenzofuran	0.244	0.244	1.051E-04	1.051E-04
Pentachlorobenzene	0.674	0.674	2.903E-04	2.903E-04
1-Naphthylamine	1.76	1.76	7.581E-04	7.581E-04
2-Naphthylamine	1.56	1.56	6.719E-04	6.719E-04
2,3,4,6-Tetrachlorophenol	0.714	0.714	3.075E-04	3.075E-04
Diethylphthalate	0.26	0.26	1.120E-04	1.120E-04
4-Chlorophenylphenyl ether	0.283	0.283	1.219E-04	1.219E-04
Fluorene	0.34	0.34	1.464E-04	1.464E-04
5-Nitro-o-toluidine	0.363	0.363	1.564E-04	1.564E-04
4-Nitroaniline	0.775	0.775	3.338E-04	3.338E-04
4,6-Dinitro-2-methylphenol	27.2	27.2	1.172E-02	1.172E-02
Diphenylamine/N-NitrosoDPA	0.368	0.368	1.585E-04	1.585E-04
sym-Trinitrobenzene	1.25	1.25	5.384E-04	5.384E-04
Diallate	0.475	0.475	2.046E-04	2.046E-04
Phenacetin	0.224	0.224	9.648E-05	9.648E-05
4-Bromophenylphenyl ether	0.689	0.689	2.968E-04	2.968E-04
Hexachlorobenzene	0.371	0.371	1.598E-04	1.598E-04
4-Aminobiphenyl	2.07	2.07	8.916E-04	8.916E-04
Pronamide	0.257	0.257	1.107E-04	1.107E-04

TABLE F-3. AEC - RUN NO. 1 GS TEST (31 MARCH 1998)

Compounds below the DLs are listed as nondetected (ND)

Analyte	NY 9 5 3 3 5 20 20 20 20 20 20 20 20 20 20 20 20 20	Run 1 Train B -Detection Limit, ug	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
Pentachlorophenol	28.8	28.8	1.240E-02	1.240E-02
Pentachloronitrobenzene	1.34	1.34	5.772E-04	5.772E-04
Phenanthrene	0.61	0.61	2.627E-04	2.627E-04
Anthracene	0.366	0.366	1.576E-04	1.576E-04
Carbazole	0.245	0.245	1.055E-04	1.055E-04
Di-n-butylphthalate	0.17	0.17	7.322E-05	7.322E-05
4-Nitroquinoline-1-oxide	22.5	22.5	9.691E-03	9.691E-03
Methapyrilene	20.7	20.7	8.916E-03	8.916E-03
Fluoranthene	0.361	0.361	1.555E-04	1.555E-04
Benzidine	13.4	13.4	5.772E-03	5.772E-03
Pyrene	0.496	0.496	2.136E-04	2.136E-04
p-Dimethylaminoazobenzene	0.368	0.368	1.585E-04	1.585E-04
Chlorobenzilate	0.512	0.512	2.205E-04	2.205E-04
Kepone	18.8	18.8	8.097E-03	8.097E-03
Butylbenzylphthalate	0.205	0.205	8.830E-05	8.830E-05
3,3'-Dimethylbenzidine	1.98	1.98	8.528E-04	8.528E-04
2-Acetylaminofluorene	0.312	0.312	1.344E-04	1.344E-04
bis(2-Ethylhexyl)phthalate	1.22	1.22	5.255E-04	5.255E-04
3,3'-Dichlorobenzidine	0.335	0.335	1.443E-04	1.443E-04
Benz(a)anthracene	0.452	0.452	1.947E-04	1.947E-04
Chrysene	0.488	0.488	2.102E-04	2.102E-04
Di-n-octylphthalate	0.312	0.312	1.344E-04	1.344E-04
7,12-Dimethylbenz(a)anthracene	0.461	0.461	1.986E-04	1.986E-04
Benzo(b)fluoranthene (a)	0.278	0.278	1.197E-04	1.197E-04
Benzo(k)fluoranthene (a)	0.581	0.581	2.502E-04	2.502E-04
Benz(a)pyrene	0.329	0.329	1.417E-04	1.417E-04
3-Methylcholanthrene	1.17	1.17	5.039E-04	5.039E-04
Indeno(1,2,3-cd)pyrene	0.219	0.219	9.433E-05	9.433E-05
Dibenz(a,h)anthracene	0.246	0.246	1.060E-04	1.060E-04
Benzo(g,h,i)perylene	0.236	0.236	1.016E-04	1.016E-04

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

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GREEN PARACHUTE SIGNAL FLARE

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TABLE F-1. AEC - RUN NO. 1 GP TEST (31 MARCH 1998)
Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)
Analyzed by: Radian International LLC

Number No. 0.348 ND	Analyte	Run 1 Train A - Amount Detected, ug	Run 1 Train A -Detection Limit, ug	Run 1 Train A - Concentration, mg/m³	Run 1 Train B - Amount Detected, ug	Run 1 Train B -Detection Limit, ug	Run 1 Train B - Concentration, mg/m ³	Average Concentration - Run 1, mg/m ³
Pyridine			<u> </u>			A,		
2-Picciline								
Methyl methanesulfonate	1							
N-Microsomethylethylamine								
No. No.								
Ethyl methanesulfonate								
Enemol	<u> </u>							
Inciline	I							
No. No.	<u></u>							
Pentachloroethane								
Chicrophenel ND 0.159 ND ND 0.159 ND ND 1,3-Dichlorobenzene ND 0.307 ND ND 0.307 ND ND 0.307 ND ND 0.307 ND ND 0.507 ND ND ND 0.507 ND ND ND ND ND ND ND N	11							
1,3 Dischlorobenzene								
1.4-Dichlorobenzene								
Benzyl alcohol	1							
2-Methylphenol								
1,2-Dichlorobenzene	1							ND
								
o-Totuldine ND 0.396 ND ND 0.396 ND ND 4.4Methylphenol ND 0.474 ND ND 0.474 ND ND 0.474 ND ND <td><u> </u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	<u> </u>							
Hethylphenol/3-Methylphenol ND								ND
N-Nitroso-di-n-propylamine	1							ND
Acetophenone 0.765 0.295 3.592E-04 0.876 0.295 4.778E-04 4.185								ND
N-Nitrosomorpholine ND								4.185E-04
N-Nitrosopyrrolidine								ND ND
Hexachlorosthane								ND
Nitrobenzene ND 0.891 ND ND 0.891 ND NITrosopiperidine ND 0.729 ND ND 0.729 ND NITrosopiperidine ND 0.729 ND ND 0.729 ND NITrosopiperidine ND 0.214 ND ND 0.214 ND ND 0.214 ND NITrosopiperidine ND 0.337 ND ND 0.337 ND ND 0.337 ND NITrophenol ND 0.3337 ND ND 0.337 ND NITrophenol ND 0.536 ND ND 0.536 ND ND 0.536 ND ND 0.536 ND NITrophenol ND 0.391 ND ND ND 0.391 ND ND ND ND ND ND ND N								ND
N-Nitrosopiperidine								ND
Isophorone								ND
2,4-Dimethylphenol ND 0.337 ND ND 0.337 ND ND 2-Nitrophenol ND 0.536 ND ND 0.536 ND ND bis(22-Chloroethoxy)methane ND 0.391 ND ND ND ND ND Benzoic acid ND 36.6 ND ND ND 36.6 ND ND 2,4-Dichlorophenol ND 0.49 ND ND 0.49 ND ND 0.49 ND ND </td <td></td> <td>ND</td> <td>0.214</td> <td>ND</td> <td>ND</td> <td>0.214</td> <td>ND</td> <td>ND</td>		ND	0.214	ND	ND	0.214	ND	ND
2-Nitrophenol ND 0.536 ND ND 0.536 ND ND ND ND O.591 ND ND O.391 ND ND ND O.391 ND ND ND ND ND ND ND N		ND	0.337	ND	ND	0.337	ND	ND
Benzoic acid ND 36.6 ND ND 36.6 ND ND ND 2.4-Dichlorophenol ND 0.49 ND ND ND 0.49 ND ND ND ND ND 1.2,4-Trichlorobenzene ND 0.353 ND ND ND 0.354 ND ND ND 0.355 ND ND ND ND ND ND ND		ND	0.536	ND	ND	0.536	ND	ND
2,4-Dichlorophenol ND	bis(2-Chloroethoxy)methane	ND	0.391	ND	ND	0.391	ND	ND
1,2,4-Trichlorobenzene	Benzoic acid	ND	36.6	ND	ND	36.6	ND	ND
Naphthalene	2,4-Dichlorophenol		0.49		ND	0.49		ND
p-Chloroaniline ND 0.322 ND ND 0.322 ND ND 0.322 ND NI 2,6-Dichlorophenol ND 0.344 ND ND 0.344 ND NI Hexachloropene ND 0.565 ND ND 0.565 ND ND Hexachlorobutadiene ND 0.51 ND ND 0.51 ND ND 0.51 ND N	1,2,4-Trichlorobenzene	ND	0.353		ND	0.353		ND
2,6-Dichlorophenol ND 0.344 ND ND 0.344 ND NI Hexachloropropene ND 0.565 ND ND 0.565 ND NI Hexachlorobutadiene ND 0.51 ND ND 0.51 ND NI Dimethylphenethylamine ND 20.4 ND ND 20.4 ND NI N-Nitroso-di-n-butylamine ND 0.374 ND ND 0.374 ND ND 0.374 ND NI 4-Chloro-3-methylphenol ND 0.567 ND ND 0.567 ND ND 0.374 ND NI 4-Chloro-3-methylphenol ND 0.567 ND ND 0.567 ND ND 0.567 ND	Naphthalene		0.447	5.025E-04				6.085E-04
Hexachloropropene ND 0.565 ND ND 0.565 ND NI	p-Chloroaniline		0.322	Li				ND
Hexachlorobutadiene								ND
Dimethylphenethylamine ND 20.4 ND ND 20.4 ND NID N-Nitroso-di-n-butylamine ND 0.374 ND ND 0.374 ND ND 0.374 ND NID								ND
N-Nitroso-di-n-butylamine ND 0.374 ND ND 0.374 ND NI 4-Chloro-3-methylphenol ND 0.567 ND ND 0.567 ND NI Safrole ND 0.711 ND ND 0.711 ND NI 2-Methylnaphthalene 0.482 0.359 2.264E-04 0.555 0.359 3.027E-04 2.645 1,2,4,5-Tetrachlorobenzene ND 0.546 ND ND 0.546 ND ND NI Hexachlorocyclopentadiene ND 11.1 ND ND 11.1 ND ND NI 2,4,6-Trichlorophenol ND 0.631 ND ND 0.631 ND ND 0.536 ND NI 2,4,5-Trichlorophenol ND 0.536 ND ND 0.536 ND ND 0.536 ND NI Isosafrole ND 1.08 ND ND ND 1.08 ND NI	Hexachlorobutadiene							ND
4-Chloro-3-methylphenol ND 0.567 ND ND 0.567 ND NI Safrole ND 0.711 ND ND 0.711 ND NI 2-Methylnaphthalene 0.482 0.359 2.264E-04 0.555 0.359 3.027E-04 2.645 1,2,4,5-Tetrachlorobenzene ND 0.546 ND ND 0.546 ND ND ND NI Hexachlorocyclopentadiene ND 11.1 ND ND ND 11.1 ND NI NI ND NI NI <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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TABLE F-1. AEC - RUN NO. 1 GP TEST (31 MARCH 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)
Analyzed by: Radian International LLC

	Run 1 Train A - Amount	Run 1 Train A -Detection		Run 1 Train B - Amount	Run 1 Train B -Detection	Run 1 Train B - Concentration,	Average Concentration -
Analyte	Detected, ug	Limit, ug	mg/m³	Detected, ug	Limit, ug	mg/m³	Run 1, mg/m³
4-Nitrophenol	ND	30.7	ND	ND	30.7	ND	ND
2,4-Dinitrophenol	ND	31.5	ND	ND	31.5	ND	ND
Acenaphthene	ND	0.36	ND	ND	0.36	ND	ND
2,4-Dinitrotoluene	ND	0.445	ND	ND	0.445	ND	ND
Dibenzofuran	ND	0.244	ND	ND	0.244	ND	ND
Pentachlorobenzene	ND	0.674	ND ND	ND	0.674	ND	ND
1-Naphthylamine	ND	1.76	ND	ND	1.76	ND	ND
2-Naphthylamine	ND	1.56	ND	ND	1.56	ND	ND
2,3,4,6-Tetrachlorophenol	ND	0.714	ND	ND	0.714	ND	ND
Diethylphthalate	4.14	0.26	1.944E-03	3.84	0.26	2.094E-03	2.019E-03
4-Chlorophenylphenyl ether	ND	0.283	ND	ND	0.283	ND	ND
Fluorene	ND	0.34	ND	ND	0.34	ND	ND
5-Nitro-o-toluidine	ND	0.363	ND	ND	0.363	ND	ND
4-Nitroaniline	ND	0.775	ND	ND	0.775	ND	ND
4,6-Dinitro-2-methylphenol	ND	27.2	ND	ND	27.2	ND	ND
Diphenylamine/N-NitrosoDPA	ND	0.368	ND	ND	0.368	ND	ND
sym-Trinitrobenzene	ND	1.25	ND	ND	1.25	ND	ND
Diallate	ND	0.475	ND	ND	0.475	ND	ND
Phenacetin	ND	0.224	ND	ND	0.224	ND	ND
4-Bromophenylphenyl ether	ND	0.689	ND	ND	0.689	ND	ND
Hexachlorobenzene	ND	0.371	ND	ND	0.371	ND	ND
4-Aminobiphenyl	ND	2.07	ND	ND	2.07	ND	ND
Pronamide	ND	0.257	ND	ND	0.257	ND	ND
Pentachlorophenol	ND	28.8	ND	ND	28.8	ND	ND
Pentachloronitrobenzene	ND	1.34	ND	ND	1.34	ND	ND
Phenanthrene	ND	0.61	ND	ND	0.61	ND	ND
Anthracene	ND	0.366	ND	ND	0.366	ND	ND
Carbazole	ND	0.245	ND	ND	0.245	ND	ND
Di-n-butylphthalate	1.32	0.17	6.199E-04	2.43	0.17	1.325E-03	9.726E-04
4-Nitroquinoline-1-oxide	ND	22.5	ND	ND	22.5	ND	ND
Methapyrilene	ND	20.7	ND	ND	20.7	ND	ND
Fluoranthene	ND	0.361	ND	ND	0.361	ND	ND
Benzidine	ND	13.4	ND	ND	13.4	ND	ND
Pyrene	ND	0.496	ND	ND	0.496	ND	ND
p-Dimethylaminoazobenzene	ND	0.368	ND	ND	0.368	ND	ND
Chlorobenzilate	ND	0.512	ND	ND	0.512	ND	ND
Kepone	ND	18.8	ND	ND	18.8	ND	ND
Butylbenzylphthalate	ND	0.205	ND	ND	0.205	ND	ND
3,3'-Dimethylbenzidine	ND	1.98	ND	ND	1.98	ND	ND
2-Acetylaminofluorene	ND	0.312	ND	ND	0.312	ND	ND
bis(2-Ethylhexyl)phthalate	ND ND	1.22	ND	ND	1.22	ND	ND
3,3'-Dichlorobenzidine	ND	0.335	ND	ND	0.335	ND	ND
Benz(a)anthracene	ND ND	0.452	ND	ND	0.452	ND ND	ND
Chrysene	ND	0.488	ND	ND	0.488	ND	ND
Di-n-octylphthalate	ND	0.312	ND	ND	0.312	ND	ND
7,12-Dimethylbenz(a)anthracene	ND	0.461	ND	ND	0.461	ND	ND
Benzo(b)fluoranthene (a)	ND ND	0.278	ND	ND	0.278	ND	ND
Benzo(k)fluoranthene (a)	ND	0.581	ND	ND	0.581	ND	ND
Benz(a)pyrene	ND ND	0.329	ND	ND	0.329	ND	ND
3-Methylcholanthrene	ND ND	1.17	ND	ND	1.17	ND	ND
Indeno(1,2,3-cd)pyrene	ND ND	0.219	ND	ND	0.219	ND	ND
Dibenz(a,h)anthracene	ND ND	0.246	ND ND	ND ND	0.246	ND ND	ND
Benzo(g,h,i)perylene	ND	0.236	ND	ND	0.236	ND	ND

TABLE F-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK
Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap
Compounds below the DLs are listed as nondetected (ND)
Analyzed by: Radian International LLC

	Background - Amount	Background - Detection Limit,	Background - Concentration,	Reagent Blank - Amount	Reagent Blank - Detection Limit,	Field Blank - Amount	Field Blank - Detection Limit,
Analyte	Detected, ug	ng .	mg/m*	Detected, ug	ng	Detected, ug	- Gn
N-Nitrosodimethylamine	QN	0.348	QN	QN	0.348	ND	0.348
Pyridine	QN	1.02	QN	QN	1.02	ND	1.02
2-Picoline	QN	1.06	Q	QN	1.06	ON	1.06
Methyl methanesulfonate	ND	0.401	QV	QN	0.401	QN	0.401
N-Nitrosomethylethylamine	ND	0.796	Q	QN	962'0	ND	0.796
N-Nitrosodiethylamine	ND	0.85	QN	QN	0.85	ND	0.85
Ethyl methanesulfonate	QN	0.391	QN	QN	0.391	ND	0.391
Phenol	QN	0.25	QN	QN	0.25	ND	0.25
Aniline	ND	0.399	QN	QN	0.399	QN	0.399
bis(2-Chloroethyl)ether	ND	0.312	QN	QN	0.312	ON	0.312
Pentachloroethane	ND	0.721	QN	QN	0.721	ND	0.721
2-Chlorophenol	ND	0.159	ND	QN	0.159	ND	0.159
1,3-Dichlorobenzene	Q.	0.307	QV	QN	208.0	ON	0.307
1,4-Dichlorobenzene	ND	0.616	QN	QN	0.616	QN	0.616
Benzyl alcohol	ON	0.697	QN	QN	0.697	ND	0.697
2-Methylphenol	ND	0.561	ND	QN	0.561	ON	0.561
1,2-Dichlorobenzene	ND	0.446	ND	QN	0.446	ND	0.446
bis(2-Chloroisopropyl)ether	ND	0.376	ND	QN	0.376	ND	0.376
o-Toluidine	ND	0.396	ND	QN	968.0	ON	0.396
4-Methylphenol/3-Methylphenol	ND	0.474	ND	QN	0.474	QN	0.474
N-Nitroso-di-n-propylamine	ND	0.281	QN	QN	0.281	ND	0.281
Acetophenone	0.904	0.295	2.708E-04	0.578	0.295	QN	0.295
N-Nitrosomorpholine	ND	0.899	ON	QN	0.899	QN	0.899
N-Nitrosopyrrolidine	ND	1.19	ND	QN	1.19	ND	1.19
Hexachloroethane	ND	0.494	QN	QN	0.494	ND	0.494
Nitrobenzene	ND	0.891	ON	QN	0.891	QN	0.891
N-Nitrosopiperidine	QN	0.729	QN	ΠN	0.729	QN	0.729
Isophorone	ND	0.214	ND	QN	0.214	ND	0.214
2,4-Dimethylphenol	ND	0.337	ND	DN	0.337	QN	0.337
2-Nitrophenol	ND	0.536	ND	QN	0.536	QN	0.536
bis(2-Chloroethoxy)methane	ND	0.391	ND	QN	0.391	ON	0.391
Benzoic acid	ND	36.6	ND	ND	36.6	Q	36.6

TABLE F-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

Analyte D 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene	Background -	Background -	Background -	Readent Blank -	Reagent Blank -	Field Blank -	Field Blank -
rte zene	Amount	Detection Limit,	Concentration,	Amount		Amount	Detection Limit,
2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene	Detected, ug	6n	mg/m³	Detected, ug	бn	Detected, ug	ug
1,2,4-Trichlorobenzene Naphthalene	QN	0.49	ND	DN	0.49	ON	0.49
Naphthalene	QN	0.353	QN	QN	0.353	QN	0.353
	1	0.447	2.995E-04	ND	0.447	QN	0.447
p-Chloroaniline	QN	0.322	ND	QN	0.322	QN	0.322
2,6-Dichlorophenol	QN	0.344	QN	ON	0.344	QN	0.344
Hexachloropropene	QN	0.565	QN	QN	0.565	QN	0.565
Hexachlorobutadiene	QN	0.51	ND	ON	0.51	QN	0.51
Dimethylphenethylamine	ND	20.4	ND	QN	20.4	QN	20.4
N-Nitroso-di-n-butylamine	QN	0.374	QN	QN	0.374	QN	0.374
4-Chloro-3-methylphenol	QN	0.567	QN	QN	0.567	QN	0.567
Safrole	ND	0.711	QN	ON	0.711	QN	0.711
2-Methylnaphthalene	ND	0.359	QN	ON	0.359	ND	0.359
1,2,4,5-Tetrachlorobenzene	QN	0.546	ON	ON	0.546	ND	0.546
Hexachlorocyclopentadiene	ND	11.1	ND	QN	11.1	ND	11.1
2,4,6-Trichlorophenol	ND	0.631	QN	ON	0.631	ND	0.631
2,4,5-Trichlorophenol	QN	0.536	ON	QN	0.536	QN	0.536
Isosafrole	ND	1.08	ND	QN	1.08	ND	1.08
2-Chloronaphthalene	ND	0.564	QN	QN	0.564	ND	0.564
2-Nitroaniline	ND	0.358	QN	QN	0.358	ON	0.358
1,4-Naphthoquinone	ND	1	QN	QN	1	ON	1
Dimethylphthalate	ND	0.291	QN	QN	0.291	ON	0.291
1,3-Dinitrobenzene	ND	0.837	QN	QN	0.837	Q	0.837
2,6-Dinitrotoluene	ND	0.704	QN	ND	0.704	ND	0.704
Acenaphthylene	ND	0.327	DN	QN	0.327	ND	0.327
3-Nitroaniline	ND	0.881	QN	QN	0.881	ON	0.881
4-Nitrophenol	ND	30.7	ND	QN	30.7	QN	30.7
2,4-Dinitrophenol	ND	31.5	QN	QN	31.5	ND	31.5
Acenaphthene	ND	0.36	QN	QN	0.36	ND	0.36
2,4-Dinitrotoluene	ND	0.445	ON	ON	0.445	ND	0.445
Dibenzofuran	ND	0.244	ON	ON	0.244	ND	0.244
Pentachlorobenzene	ND	0.674	QN	ON	0.674	ON	0.674
1-Naphthylamine	ND	1.76	QN	QN	1.76	ND	1.76

TABLE F-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected

on filter and resin trap Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

Analyte	Background - Amount Detected, ug	Background - Detection Limit, ug	Background - Concentration, mg/m³	Reagent Blank - Amount Detected, ug	Reagent Blank - Detection Limit, ug	Field Blank - Amount Detected, ug	Field Blank - Detection Limit,
2-Naphthylamine	QN	1.56	ND	QN	1.56	ND	1.56
2,3,4,6-Tetrachlorophenol	QN	0.714	ON	QN	0.714	ND	0.714
Diethylphthalate	1.16	0.26	3.475E-04	QN	0.26	QN	0.26
4-Chlorophenylphenyl ether	QN	0.283	ND	QN	0.283	DN	0.283
Fluorene	ŪΝ	0.34	ND	QN	0.34	QN	0.34
5-Nitro-o-toluidine	QN	0.363	ND	QN	0.363	QN	0.363
4-Nitroaniline	QΝ	0.775	ND	ΩN	0.775	QN	0.775
4,6-Dinitro-2-methylphenol	QN	27.2	ND	QN	27.2	ÑD	27.2
Diphenylamine/N-NitrosoDPA	QN	0.368	ND	QN	0.368	QN	0.368
sym-Trinitrobenzene	QN	1.25	ND	QN	1.25	QN	1.25
Diallate	QN	0.475	ND	QN	0.475	QN	0.475
Phenacetin	QN	0.224	ND	QN	0.224	QN	0.224
4-Bromophenylphenyl ether	QN	0.689	ND	GN	689.0	QN	0.689
Hexachlorobenzene	QN	0.371	ND	QN	0.371	ND	0.371
4-Aminobiphenyl	QN	2.07	ND	GN	2.07	DN	2.07
Pronamide	QN	0.257	ND	GN	0.257	ON	0.257
Pentachlorophenol	QN	28.8	ND	QN	28.8	QN	28.8
Pentachloronitrobenzene	QN	1.34	ND	QN	1.34	ND	1.34
Phenanthrene	QN	0.61	ND	QN	0.61	ON	0.61
Anthracene	QN	0.366	ND	QN	998.0	QN	0.366
Carbazole	QN	0.245	ND	ON	0.245	NΩ	0.245
Di-n-butylphthalate	4.53	0.17	1.357E-03	5.39	0.17	2.93	0.17
4-Nitroquinoline-1-oxide	Q	22.5	ND	ND	22.5	Q	22.5
Methapyrilene	QN	20.7	ND	ND	20.7	Q	20.7
Fluoranthene	QN	0.361	ND	QN	0.361	Q	0.361
Benzidine	ND	13.4	ND	ND	13.4	ND	13.4
Pyrene	QN	0.496	ND	ND	0.496	ND	0.496
p-Dimethylaminoazobenzene	ON	0.368	ND	QN	0.368	QN	0.368
Chlorobenzilate	Q	0.512	ND	ND	0.512	QN	0.512
Kepone	QN	18.8	ND	QN	18.8	QN	18.8
Butylbenzylphthalate	ON	0.205	ND	ND	0.205	0.514	0.205
3,3'-Dimethylbenzidine	ΩN	1.98	ND	QN	1.98	QN	1.98

TABLE F-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected

on filter and resin trap Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

	Background - Amount	Background - Detection Limit,	Background - Concentration,	Reagent Blank - Amount	Reagent Blank - Reagent Blank - Amount Detection Limit,	Field Blank - Amount	Field Blank - Detection Limit,
Analyte	Detected, ug	бn	mg/m³	Detected, ug	бn	Detected, ug	В'n
2-Acetylaminofluorene	QN	0.312	QV	QN	0.312	ND	0.312
bis(2-Ethylhexyl)phthalate	QN	1.22	ON	QN	1.22	2.56	1.22
3,3'-Dichlorobenzidine	DN	0.335	QN	QN	0.335	ND	0.335
Benz(a)anthracene	ON	0.452	ON	QN	0.452	QN	0.452
Chrysene	ON	0.488	QN	QN	0.488	ND	0.488
Di-n-octylphthalate	ND	0.312	ON	QN	0.312	ND	0.312
7,12-Dimethylbenz(a)anthracene	ND	0.461	ON	QN	0.461	ND	0.461
Benzo(b)fluoranthene (a)	ND	0.278	ON	QN	0.278	ND	0.278
Benzo(k)fluoranthene (a)	ND	0.581	QN	QN	0.581	ND	0.581
Benz(a)pyrene	QN	0.329	QN	QN	0.329	ON	0.329
3-Methylcholanthrene	QN	1.17	ON	QN	1.17	QN	1.17
Indeno(1,2,3-cd)pyrene	QN	0.219	ND	QN	0.219	ND	0.219
Dibenz(a,h)anthracene	ON	0.246	ON	QN	0.246	QN	0.246
Benzo(g,h,i)perylene	QN	0.236	ND	DN	0.236	QN	0.236

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

TABLE F-3. AEC - RUN NO. 1 GP TEST (31 MARCH 1998)
Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

Sign Sign Sign Sign Sign Sign Sign Sign	1	Run 1 Train B -Detection Limit, ug	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
N-Nitrosodimethylamine	0.348	0.348	1.756E-04	1.756E-04
Pyridine	1.02	1.02	5.148E-04	5.148E-04
2-Picoline	1.06	1.06	5.350E-04	5.350E-04
Methyl methanesulfonate	0.401	0.401	2.024E-04	2.024E-04
N-Nitrosomethylethylamine	0.796	0.796	4.017E-04	4.017E-04
N-Nitrosodiethylamine	0.85	0.85	4.290E-04	4.290E-04
Ethyl methanesulfonate	0.391	0.391	1.973E-04	1.973E-04
Phenol	0.25	0.25	1.262E-04	1.262E-04
Aniline	0.399	0.399	2.014E-04	2.014E-04
bis(2-Chloroethyl)ether	0.312	0.312	1.575E-04	1.575E-04
Pentachloroethane	0.721	0.721	3.639E-04	3.639E-04
2-Chlorophenol	0.159	0.159	8.024E-05	8.024E-05
1,3-Dichlorobenzene	0.307	0.307	1.549E-04	1.549E-04
1,4-Dichlorobenzene	0.616	0.616	3.109E-04	3.109E-04
Benzyl alcohol	0.697	0.697	3.518E-04	3.518E-04
2-Methylphenol	0.561	0.561	2.831E-04	2.831E-04
1,2-Dichlorobenzene	0.446	0.446	2.251E-04	2.251E-04
bis(2-Chloroisopropyl)ether	0.376	0.376	1.898E-04	1.898E-04
o-Toluidine	0.396	0.396	1.999E-04	1.999E-04
4-Methylphenol/3-Methylphenol	0.474	0.474	2.392E-04	2.392E-04
N-Nitroso-di-n-propylamine	0.281	0.281	1.418E-04	1.418E-04
Acetophenone	0.295	0.295	1.489E-04	1.489E-04
N-Nitrosomorpholine	0.899	0.899	4.537E-04	4.537E-04
N-Nitrosopyrrolidine	1.19	1.19	6.006E-04	6.006E-04
Hexachloroethane	0.494	0.494	2.493E-04	2.493E-04
Nitrobenzene	0.891	0.891	4.497E-04	4.497E-04
N-Nitrosopiperidine	0.729	0.729	3.679E-04	3.679E-04
Isophorone	0.214	0.214	1.080E-04	1.080E-04
2,4-Dimethylphenol	0.337	0.337	1.701E-04	1.701E-04
2-Nitrophenol	0.536	0.536	2.705E-04	2.705E-04
bis(2-Chloroethoxy)methane	0.391	0.391	1.973E-04	1.973E-04
Benzoic acid	36.6	36.6	1.847E-02	1.847E-02
2,4-Dichlorophenol	0.49	0.49	2.473E-04	2.473E-04
1,2,4-Trichlorobenzene	0.353	0.353	1.781E-04	1.781E-04
Naphthalene	0.447	0.447	2.256E-04	2.256E-04
p-Chloroaniline	0.322	0.322	1.625E-04	1.625E-04
2,6-Dichlorophenol	0.344	0.344	1.736E-04	1.736E-04
Hexachloropropene	0.565	0.565	2.851E-04	2.851E-04
Hexachlorobutadiene	0.51	0.51	2.574E-04	2.574E-04
Dimethylphenethylamine	20.4	20.4	1.030E-02	1.030E-02

TABLE F-3. AEC - RUN NO. 1 GP TEST (31 MARCH 1998)

Compounds below the DLs are listed as nondetected (ND)

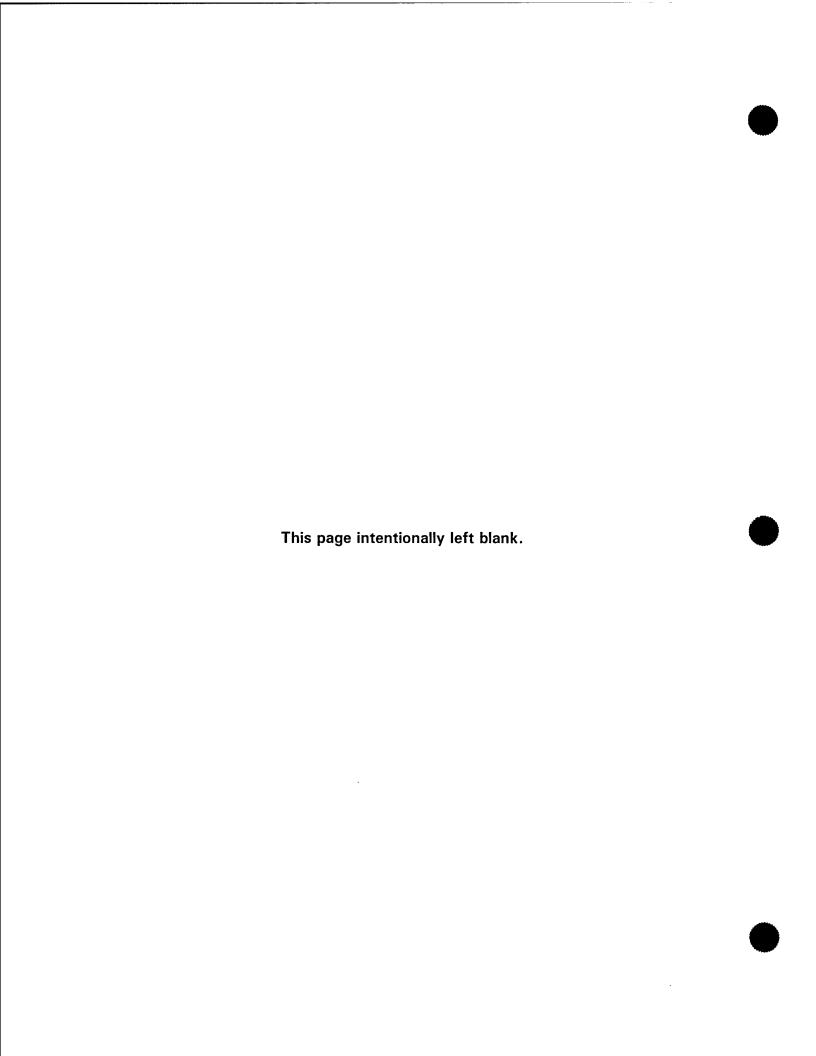
Analyte		Run 1 Train B -Detection Limit, ug	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
N-Nitroso-di-n-butylamine	0.374	0.374	1.887E-04	1.887E-04
4-Chloro-3-methylphenol	0.567	0.567	2.861E-04	2.861E-04
	0.367	0.307	3.588E-04	3.588E-04
Safrole		0.711	1.812E-04	1.812E-04
2-Methylnaphthalene	0.359			2.756E-04
1,2,4,5-Tetrachlorobenzene	0.546	0.546	2.756E-04	5.602E-03
Hexachlorocyclopentadiene	11.1	11.1	5.602E-03	
2,4,6-Trichlorophenol	0.631	0.631	3.184E-04	3.184E-04
2,4,5-Trichlorophenol	0.536	0.536	2.705E-04	2.705E-04
Isosafrole	1.08	1.08	5.450E-04	5.450E-04
2-Chloronaphthalene	0.564	0.564	2.846E-04	2.846E-04 1.807E-04
2-Nitroaniline	0.358	0.358	1.807E-04 5.047E-04	5.047E-04
1,4-Naphthoquinone	1 0 001	1 0.001		1.469E-04
Dimethylphthalate	0.291	0.291 0.837	1.469E-04 4.224E-04	4.224E-04
1,3-Dinitrobenzene	0.837		3.553E-04	3.553E-04
2,6-Dinitrotoluene	0.704	0.704 0.327	1.650E-04	1.650E-04
Acenaphthylene	0.327		4.446E-04	4.446E-04
3-Nitroaniline	0.881	0.881	1.549E-02	1.549E-02
4-Nitrophenol	30.7	30.7		1.590E-02
2,4-Dinitrophenol	31.5	31.5	1.590E-02	1.817E-04
Acenaphthene	0.36	0.36	1.817E-04	2.246E-04
2,4-Dinitrotoluene	0.445	0.445	2.246E-04	1.231E-04
Dibenzofuran	0.244	0.244	1.231E-04	
Pentachlorobenzene	0.674	0.674	3.401E-04	3.401E-04
1-Naphthylamine	1.76	1.76	8.882E-04	8.882E-04
2-Naphthylamine	1.56	1.56	7.873E-04	7.873E-04
2,3,4,6-Tetrachlorophenol	0.714	0.714	3.603E-04	3.603E-04 1.312E-04
Diethylphthalate	0.26	0.26	1.312E-04	
4-Chlorophenylphenyl ether	0.283	0.283	1.428E-04 1.716E-04	1.428E-04 1.716E-04
Fluorene	0.34	0.34	1.832E-04	1.832E-04
5-Nitro-o-toluidine	0.363	0.363 0.775		3.911E-04
4-Nitroaniline	0.775		3.911E-04	3.911E-04 1.373E-02
4,6-Dinitro-2-methylphenol	27.2	27.2	1.373E-02	
Diphenylamine/N-NitrosoDPA	0.368	0.368	1.857E-04	1.857E-04
sym-Trinitrobenzene	1.25	1.25	6.308E-04	6.308E-04
Diallate	0.475	0.475	2.397E-04	2.397E-04
Phenacetin	0.224	0.224	1.130E-04	1.130E-04
4-Bromophenylphenyl ether	0.689	0.689	3.477E-04	3.477E-04
Hexachlorobenzene	0.371	0.371	1.872E-04	1.872E-04
4-Aminobiphenyl	2.07	2.07	1.045E-03	1.045E-03
Pronamide	0.257	0.257	1.297E-04	1.297E-04

TABLE F-3. AEC - RUN NO. 1 GP TEST (31 MARCH 1998)

Compounds below the DLs are listed as nondetected (ND)

Analyte	**************************************	Run 1 Train B -Detection Limit, ug	Average Maximum Detection Limit - Concentration, mg/m ³	Average Minimum Detection Limit - Concentration, mg/m ³
Pentachlorophenol	28.8	28.8	1.453E-02	1.453E-02
Pentachloronitrobenzene	1.34	1.34	6.763E-04	6.763E-04
Phenanthrene	0.61	0.61	3.079E-04	3.079E-04
Anthracene	0.366	0.366	1.847E-04	1.847E-04
Carbazole	0.245	0.245	1.236E-04	1.236E-04
Di-n-butylphthalate	0.17	0.17	8.579E-05	8.579E-05
4-Nitroquinoline-1-oxide	22.5	22.5	1.136E-02	1.136E-02
Methapyrilene	20.7	20.7	1.045E-02	1.045E-02
Fluoranthene	0.361	0.361	1.822E-04	1.822E-04
Benzidine	13.4	13.4	6.763E-03	6.763E-03
Pyrene	0.496	0.496	2.503E-04	2.503E-04
p-Dimethylaminoazobenzene	0.368	0.368	1.857E-04	1.857E-04
Chlorobenzilate	0.512	0.512	2.584E-04	2.584E-04
Kepone	18.8	18.8	9.488E-03	9.488E-03
Butylbenzylphthalate	0.205	0.205	1.035E-04	1.035E-04
3,3'-Dimethylbenzidine	1.98	1.98	9.993E-04	9.993E-04
2-Acetylaminofluorene	0.312	0.312	1.575E-04	1.575E-04
bis(2-Ethylhexyl)phthalate	1.22	1.22	6.157E-04	6.157E-04
3,3'-Dichlorobenzidine	0.335	0.335	1.691E-04	1.691E-04
Benz(a)anthracene	0.452	0.452	2.281E-04	2.281E-04
Chrysene	0.488	0.488	2.463E-04	2.463E-04
Di-n-octylphthalate	0.312	0.312	1.575E-04	1.575E-04
7,12-Dimethylbenz(a)anthracene	0.461	0.461	2.327E-04	2.327E-04
Benzo(b)fluoranthene (a)	0.278	0.278	1.403E-04	1.403E-04
Benzo(k)fluoranthene (a)	0.581	0.581	2.932E-04	2.932E-04
Benz(a)pyrene	0.329	0.329	1.660E-04	1.660E-04
3-Methylcholanthrene	1.17	1.17	5.905E-04	5.905E-04
Indeno(1,2,3-cd)pyrene	0.219	0.219	1.105E-04	1.105E-04
Dibenz(a,h)anthracene	0.246	0.246	1.241E-04	1.241E-04
Benzo(g,h,i)perylene	0.236	0.236	1.191E-04	1.191E-04

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.



WHITE PARACHUTE SIGNAL FLARE

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ABLE F-1. AEC - RUN NO. 1 WP TEST (1 APRIL 1998)
Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap
Compounds below the DLs are listed as nondetected (ND)
Analyzed by: Radian International LLC

Analyte	Run 1 Train A - Amount Detected, ug	Run 1 Train A -Detection Limit, ug	日第1 <u>25</u> 000円 かかがける。。	Run 1 Train B - Amount Detected, ug	Run 1 Train B -Detection Limit, ug	Run 1 Train B - Concentration, mg/m³	Average Concentration - Run 1, mg/m³
N-Nitrosodimethylamine	ND	0.348	ND	ND	0.348	ND	ND
Pyridine	ND	1.02	ND	ND	1.02	ND	ND
2-Picoline	ND	1.06	ND	ND	1.06	ND	ND
Methyl methanesulfonate	ND	0.401	ND	ND	0.401	ND	ND
N-Nitrosomethylethylamine	ND	0.796	ND	ND	0.796	ND	ND
N-Nitrosodiethylamine	ND	0.85	ND	ND	0.85	ND	ND
Ethyl methanesulfonate	ND	0.391	ND	ND	0.391	ND	ND
Phenol	ND	0.25	ND	ND	0.25	ND	ND
Aniline	ND	0.399	ND	ND	0.399	ND	ND
bis(2-Chloroethyl)ether	ND	0.312	ND	ND	0.312	ND	ND
Pentachloroethane	ND	0.721	ND	ND	0.721	ND	ND
2-Chlorophenol	ND	0.159	ND	ND	0.159	ND	ND
1,3-Dichlorobenzene	ND	0.307	ND	ND	0.307	ND	ND
1,4-Dichlorobenzene	ND	0.616	ND	ND	0.616	ND	ND
Benzyl alcohol	ND	0.697	ND	ND	0.697	ND	ND
2-Methylphenol	ND	0.561	ND	ND	0.561	ND	ND
1,2-Dichlorobenzene	ND	0.446	ND	ND	0.446	ND	ND
bis(2-Chloroisopropyl)ether	ND	0.376	ND	ND	0.376	ND	ND
o-Toluidine	ND	0.396	ND	ND	0.396	ND	ND
4-Methylphenol/3-Methylphenol	ND	0.474	ND	ND	0.474	ND	ND
N-Nitroso-di-n-propylamine	ND	0.281	ND	ND	0.281	ND	ND
Acetophenone	0.777	0.295	3.969E-04	1.19	0.295	7.051E-04	5.510E-04
I-Nitrosomorpholine	ND	0.899	ND	ND	0.899	ND	ND ND
N-Nitrosopyrrolidine	ND ND	1.19	ND	ND	1.19	ND	ND
Hexachloroethane	ND ND	0.494	ND	ND	0.494	ND ND	ND ND
Nitrobenzene	ND ND	0.891	ND ND	ND	0.891	ND ND	ND ND
N-Nitrosopiperidine	ND ND	0.729 0.214	ND ND	ND ND	0.729 0.214	ND ND	ND ND
Isophorone 2,4-Dimethylphenol	ND ND	0.214	ND	ND	0.337	ND	ND ND
2-Nitrophenol	ND ND	0.536	ND	ND	0.536	ND	ND
bis(2-Chloroethoxy)methane	ND	0.391	ND	ND ND	0.391	ND	ND
Benzoic acid	ND	36.6	ND	ND	36.6	ND	ND
2,4-Dichlorophenol	ND	0.49	ND	ND	0.49	ND	ND
1,2,4-Trichlorobenzene	ND	0.353	ND	ND	0.353	ND	ND
Naphthalene	0.682	0.447	3.483E-04	0.906	0.447	5.368E-04	4.426E-04
p-Chloroaniline	ND	0.322	ND	ND	0.322	ND	ND
2,6-Dichlorophenol	ND	0.344	ND	ND	0.344	ND	ND
Hexachloropropene	ND	0.565	ND	ND	0.565	ND	ND
Hexachlorobutadiene	ND	0.51	ND	ND	0.51	ND	ND
Dimethylphenethylamine	ND	20.4	ND	ND	20.4	ND	ND
N-Nitroso-di-n-butylamine	ND	0.374	ND	ND	0.374	ND	ND
4-Chloro-3-methylphenol	ND	0.567	ND	ND	0.567	ND	ND
Safrole	ND	0.711	ND	ND	0.711	ND	ND
2-Methylnaphthalene	ND	0.359	ND	ND	0.359	ND	ND
1,2,4,5-Tetrachiorobenzene	ND	0.546	ND	ND	0.546	ND	ND
Hexachlorocyclopentadiene	ND	11.1	ND	ND	11.1	ND ND	ND ND
2,4,6-Trichlorophenol	ND ND	0.631	ND	ND	0.631	ND	ND
2,4,5-Trichlorophenol	ND ND	0.536	ND	ND	0.536	ND	ND
Isosafrole 2-Chioronaphthalene	ND ND	1.08	ND	ND ND	1.08	ND ND	ND ND
	ND ND	0.564	ND	ND ND	0.564	ND ND	ND ND
2-Nitroaniline	ND	0.358	ND	ND ND	0.358	ND ND	ND ND
1,4-Naphthoguinone	ND	1 0 001	ND	ND	1 0 001	ND ND	ND ND
Dimethylphthalate	ND	0.291	ND	ND ND	0.291	ND ND	ND ND
1,3-Dinitrobenzene	ND	0.837	ND	ND ND	0.837	ND	ND ND
2,6-Dinitrotoluene Acenaphthylene	ND ND	0.704 0.327	ND ND	ND ND	0.704 0.327	ND ND	ND ND
	. 1417	. 0.3//	i ivii i	1 11(1)	1 0.3//	INIJ	I IND

TABLE F-1. AEC - RUN NO. 1 WP TEST (1 APRIL 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

Analyte	Run 1 Train A - Amount Detected, ug	Run 1 Train A -Detection Limit, ug	Run 1 Train A - Concentration, mg/m³	Run 1 Train B - Amount Detected, ug	Run 1 Train B -Detection Limit, ug	Run 1 Train B - Concentration, mg/m³	Average Concentration - Run 1, mg/m³
		30.7	ND	ND ND	30.7	ND ND	ND ND
4-Nitrophenol	ND ND	31.5	ND ND	ND ND	31.5	ND ND	ND ND
2,4-Dinitrophenol	ND ND	0.36	ND ND	ND ND	0.36	ND ND	
Acenaphthene	ND ND	0.36	ND ND	ND ND		ND ND	ND ND
2,4-Dinitrotoluene				1	0.445		ND ND
Dibenzofuran	ND	0.244	ND	ND	0.244	ND	ND
Pentachlorobenzene	ND	0.674	ND	ND	0.674	ND	ND
1-Naphthylamine	ND	1.76	ND	ND	1.76	ND	ND
2-Naphthylamine	ND	1.56	ND	ND	1.56	ND	ND
2,3,4,6-Tetrachlorophenol	ND	0.714	ND	ND	0.714	ND	ND
Diethylphthalate	ND	0.26	ND	0.997	0.26	5.907E-04	5.907E-04
4-Chlorophenylphenyl ether	ND	0.283	ND	ND	0.283	ND	ND
Fluorene	ND	0.34	ND	ND	0.34	ND	ND
5-Nitro-o-toluidine	ND	0.363	ND	ND	0.363	ND	ND
4-Nitroaniline	ND	0.775	ND	ND	0.775	ND	ND
4,6-Dinitro-2-methylphenol	ND	27.2	ND	ND	27.2	ND	ND
Diphenylamine/N-NitrosoDPA	ND	0.368	ND	ND	0.368	ND	ND
sym-Trinitrobenzene	ND	1.25	ND	ND	1.25	ND	ND
Diallate	ND	0.475	ND	ND	0.475	ND	ND
Phenacetin	ND	0.224	ND	ND	0.224	ND	ND
4-Bromophenylphenyl ether	ND	0.689	ND	ND	0.689	ND	ND
Hexachlorobenzene	ND	0.371	ND	ND	0.371	ND	ND
4-Aminobiphenyl	ND	2.07	ND	ND	2.07	ND	ND
Pronamide	ND	0.257	ND	ND	0.257	ND	ND
Pentachlorophenol	ND	28.8	ND	ND	28.8	ND	ND
Pentachloronitrobenzene	ND	1.34	ND	ND	1.34	ND	ND
Phenanthrene	ND	0.61	ND	ND	0.61	ND	ND
Anthracene	ND	0.366	ND	ND	0.366	ND	ND
Carbazole	ND	0.245	ND	ND	0.245	ND	ND
Di-n-butylphthalate	ND	0.17	ND	5.29	0.17	3.134E-03	3.134E-03
4-Nitroquinoline-1-oxide	ND	22.5	ND	ND	22.5	ND	ND
Methapyrilene	ND	20.7	ND	ND	20.7	ND	ND
Fluoranthene	ND	0.361	ND	ND	0.361	ND	ND
Benzidine	ND	13.4	ND	ND	13.4	ND	ND
Pyrene	ND	0.496	ND	ND	0.496	ND	ND
p-Dimethylaminoazobenzene	ND	0.368	ND	ND	0.368	ND	ND
Chlorobenzilate	ND	0.512	ND	ND	0.512	ND	ND
Kepone	ND	18.8	ND	ND	18.8	ND	ND
Butylbenzylphthalate	ND	0.205	ND	ND	0.205	ND	ND
3,3'-Dimethylbenzidine	ND	1.98	ND	ND	1.98	ND	ND
2-Acetylaminofluorene	ND	0.312	ND	ND	0.312	ND	ND
bis(2-Ethylhexyl)phthalate	ND	1.22	ND	1.2	1.22	ND	ND
3,3'-Dichlorobenzidine	ND	0.335	ND ND	ND ND	0.335	ND	ND
Benz(a)anthracene	ND ND	0.452	ND	ND ND	0.452	ND ND	ND
Chrysene	ND	0.488	ND	ND ND	0.488	ND ND	ND ND
Di-n-octylphthalate	ND ND	0.312	ND	ND ND	0.312	ND	ND ND
7,12-Dimethylbenz(a)anthracene	ND	0.461	ND	ND ND	0.461	ND ND	ND ND
Benzo(b)fluoranthene (a)	ND ND	0.401	ND	ND	0.401	ND ND	ND ND
Benzo(k)fluoranthene (a)	ND ND	0.278	ND	ND ND	0.278	ND ND	ND ND
Benz(a)pyrene	ND ND	0.329	ND ND	ND ND	0.329	ND ND	ND ND
3-Methylcholanthrene	ND ND	1.17	ND ND	ND ND	1.17	ND ND	ND ND
	ND ND					ND ND	ND ND
Indeno(1,2,3-cd)pyrene		0.219	ND ND	ND ND	0.219		
Dibenz(a,h)anthracene	ND ND	0.246	ND ND	ND ND	0.246	ND ND	ND ND
Benzo(g,h,i)perylene	ND	0.236	ND	ND	0.236	ND	ND

TABLE F-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

Analyte	Background - Amount Detected, ug	Background - Detection Limit,	Background - Concentration, mg/m³	Reagent Blank- Amount Detected, ug	Reagent Blank - Detection Limit, ug	Field Blank- Amount Detected, ug	Fleid Blank - Detection Limit, ug
N-Nitrosodimethylamine	ΩN	0.348	QN	ON	0.348	QN	0.348
Pyridine	ND	1.02	QN	ND	1.02	QN	1.02
2-Picoline	ND	1.06	QN	QN	1.06	QN	1.06
Methyl methanesulfonate	ND	0.401	ON	QN	0.401	QN	0.401
N-Nitrosomethylethylamine	ND	0.796	ON	QN	0.796	QN	0.796
N-Nitrosodiethylamine	QN	0.85	QN	QN	0.85	QN	0.85
Ethyl methanesulfonate	ND	0.391	ON	QN	0.391	QN	0.391
Phenol	ND	0.25	ON	QN	0.25	QN	0.25
Aniline	ND	0.399	ND	QN	0.399	QN	0.399
bis(2-Chloroethyl)ether	ND	0.312	ND	QN	0.312	QN	0.312
Pentachloroethane	ND	0.721	ND	QN	0.721	QN	0.721
2-Chlorophenol	ND	0.159	ND	QN	0.159	QN	0.159
1,3-Dichlorobenzene	ND	0.307	ND	QN	0.307	QN	0.307
1,4-Dichlorobenzene	ND	0.616	ND	QN	0.616	QN	0.616
Benzyl alcohol	ND	0.697	ND	QN	0.697	ON	0.697
2-Methylphenol	ND	0.561	ND	QN	0.561	QN	0.561
1,2-Dichlorobenzene	ND	0.446	ND	ON	0.446	ND	0.446
bis(2-Chloroisopropyi)ether	ND	0.376	ON	QN	0.376	ND	0.376
o-Toluidine	ND	0.396	QN	QN	0.396	ON	0.396
4-Methylphenol/3-Methylphenol	ND	0.474	QN	ON	0.474	ND	0.474
N-Nitroso-di-n-propylamine	QN	0.281	QN	QN	0.281	QN	0.281
Acetophenone	0.904	0.295	2.708E-04	0.578	0.295	QN	0.295
N-Nitrosomorpholine	NO	0.899	ON	ND	0.899	QN	0.899
N-Nitrosopyrrolidine	S	1.19	QN	ND	1.19	QN	1.19
Hexachloroethane	ND	0.494	ON	QN	0.494	ON	0.494
Nitrobenzene	ON	0.891	QN	QN	0.891	QN	0.891
N-Nitrosopiperidine	QN	0.729	ON	QN	0.729	ND	0.729
Isophorone	QN	0.214	QN	ON	0.214	ND	0.214
2,4-Dimethylphenol	ND	0.337	ND	QN	0.337	ND	0.337
2-Nitrophenol	ND	0.536	ON	ND	0.536	QN	0.536
bis(2-Chloroethoxy)methane	ON	0.391	QN	QN	0.391	QN	0.391
Benzoic acid	ND	36.6	QN	ON	36.6	DN	36.6

TABLE F-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected

on filter and resin trap Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

Analyte 2,4-Dichlorophenol	Background -	Background -	Background -	Reagent Blank	Reagent Blank -	Field Blank -	Field Blank -
2,4-Dichlorophenol	Amount	Detection Limit,	Concentration,	Amount		Amount	Detection Limit,
T	QN	0.49	QN	ON.	0.49	ND	0.49
1,2,4-Trichlorobenzene	QN	0.353	QN	QN	0.353	QN	0.353
Naphthalene	1	0.447	2.995E-04	QN	0.447	QN	0.447
p-Chloroaniline	ND	0.322	QN	QN	0.322	QN	0.322
2,6-Dichlorophenol	QV	0.344	QQ.	QN	0.344	QN	0.344
Hexachloropropene	QN	0.565	Q	QN	0.565	QN	0.565
Hexachlorobutadiene	QN	0.51	QN	QN	0.51	ΩN	0.51
Dimethylphenethylamine	QN	20.4	Q	QN	20.4	ON	20.4
N-Nitroso-di-n-butylamine	QN	0.374	Q	QV	0.374	QN	0.374
4-Chloro-3-methylphenol	QN	0.567	Q	QN	0.567	QN	0.567
Safrole	QN	0.711	Q	QN	0.711	Q	0.711
2-Methylnaphthalene	QN	0.359	2	QN	0.359	Q	0.359
1,2,4,5-Tetrachlorobenzene	QN	0.546	QN	QV	0.546	S	0.546
Hexachlorocyclopentadiene	QN	11.1	S	QN	11.1	QN	11.1
2,4,6-Trichlorophenol	QN	0.631	QN	QN	0.631	QN	0.631
2,4,5-Trichlorophenol	QN	0.536	Q	QN	0.536	QN	0.536
Isosafrole	QN	1.08	QV	QN	1.08	QN	1.08
2-Chloronaphthalene	QN	0.564	Q	QN	0.564	QN	0.564
2-Nitroaniline	QN	0.358	QN	QN	0.358	QN	0.358
1,4-Naphthoquinone	QN	1	ND	QN	1	QN	1
Dimethylphthalate	ON	0.291	ND	ND	0.291	QN	0.291
1,3-Dinitrobenzene	QN	0.837	ON	ON	0.837	QN	0.837
2,6-Dinitrotoluene	DN	0.704	ON	ND	0.704	QN	0.704
Acenaphthylene	ND	0.327	DN	ND	0.327	QN	0.327
3-Nitroaniline	ND	0.881	ON	ON	0.881	ON	0.881
4-Nitrophenol	QN	30.7	QN	QN	30.7	QN	30.7
2,4-Dinitrophenol	QN	31.5	QN	QN	31.5	QN	31.5
Acenaphthene	S	0.36	QV	QN	0.36	QN	0.36
2,4-Dinitrotoluene	QN	0.445	QN	QN	0.445	QN	0.445
Dibenzofuran	ON	0.244	QN	QN	0.244	QN	0.244
Pentachlorobenzene	QN	0.674	QN	QN	0.674	QN	0.674
1-Naphthylamine	QN	1.76	QN	ON	1.76	QN	1.76

TABLE F-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK
Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap
Compounds below the DLs are listed as nondetected (ND)
Analyzed by: Radian International LLC

Analyte	Background - Amount Detected, ug	Background - Detection Limit, ug	Background - Concentration, mg/m³	Reagent Blank - Amount Detected, ug	Reagent Blank - Detection Limit, ug	Field Blank - Amount Detected, ug	Field Blank - Detection Limit, ug
2-Naphthylamine	QN	1.56	QN	QN	1.56	QN	1.56
2,3,4,6-Tetrachlorophenol	QN	0.714	QN	ND	0.714	QN	0.714
Diethylphthalate	1.16	0.26	3.475E-04	QN	0.26	ΩN	0.26
4-Chlorophenyiphenyl ether	QN	0.283	QN	QN	0.283	QN	0.283
Fluorene	QN	0.34	ON	QN	0.34	QN	0.34
5-Nitro-o-toluidine	QN	0.363	ON	ON	0.363	QN	0.363
4-Nitroaniline	QN	0.775	ND	QN	0.775	ND	0.775
4,6-Dinitro-2-methylphenol	ON	27.2	QN	ON	27.2	ON	27.2
Diphenylamine/N-NitrosoDPA	ON	0.368	QN	QN	0.368	QN	0.368
sym-Trinitrobenzene	QN	1.25	QN	QN	1.25	QN	1.25
Diallate	QN	0.475	QN	ND	0.475	QN	0.475
Phenacetin	ON	0.224	QN	ND	0.224	QN	0.224
4-Bromophenylphenyl ether	ND	689.0	QN	QN	689'0	QN	0.689
Hexachlorobenzene	QN	0.371	QN	QN	0.371	QN	0.371
4-Aminobiphenyl	ND	2.07	QN	ON	2.07	QN	2.07
Pronamide	QN	0.257	ND	QN	0.257	QN	0.257
Pentachlorophenol	QN	28.8	QN	QN	28.8	QN	28.8
Pentachloronitrobenzene	ND	1.34	ND	QN	1.34	QN	1.34
Phenanthrene	ND	0.61	ND	QN	0.61	ND	0.61
Anthracene	ND	0.366	ND	QN	0.366	ND	0.366
Carbazole	ND	0.245	QN	QN	0.245	ND	0.245
Di-n-butylphthalate	4.53	0.17	1.357E-03	5.39	0.17	2.93	0.17
4-Nitroquinoline-1-oxide	ND	22.5	ON	ON	22.5	QN	22.5
Methapyrilene	Q	20.7	ON	ON	20.7	ND	20.7
Fluoranthene	Q	0.361	ND	DN	0.361	ON	0.361
Benzidine	ND	13.4	QN	ND	13.4	ND	13.4
Pyrene	QN	0.496	ON	ND	0.496	ON	0.496
p-Dimethylaminoazobenzene	QN	0.368	QN	ON	0.368	ND	0.368
Chlorobenzilate	ND	0.512	ON	QN	0.512	ND	0.512
Kepone	QN	18.8	QN	ND	18.8	ND	18.8
Butylbenzylphthalate	ND	0.205	ND	ND	0.205	0.514	0.205
3,3'-Dimethylbenzidine	Ω	1.98	ON	QN	1.98	QN	1.98

TABLE F-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

	Background - Amount	Background - Detection Limit,	Background - Concentration,	Reagent Blank - Amount	Reagent Blank - Detection Limit,	Field Blank - Amount	Field Blank - Detection Limit,
Analyte	Detected, ug	бn	mg/m³	Detected, ug	ng	Detected, ug	бn
2-Acetylaminofluorene	QN	0.312	QN	QN	0.312	ND	0.312
bis(2-Ethylhexyl)phthalate	QN	1.22	QN	QN	1.22	2.56	1.22
3,3'-Dichlorobenzidine	QN	0.335	QN	an	0.335	ON	0.335
Benz(a)anthracene	QN	0.452	ON	QN	0.452	QN	0.452
Chrysene	ΩN	0.488	QN	QN	0.488	QN	0.488
Di-n-octylphthalate	QN	0.312	QN	QN	0.312	QN	0.312
7,12-Dimethylbenz(a)anthracene	ΩN	0.461	QN	QN	0.461	QN	0.461
Benzo(b)fluoranthene (a)	QN	0.278	QN	QN	0.278	QN	0.278
Benzo(k)fluoranthene (a)	QN	0.581	QN	QN	0.581	QN	0.581
Benz(a)pyrene	QN	0.329	QN	QN	0.329	QN	0.329
3-Methylcholanthrene	QN	1.17	QN	QN	1.17	QN	1.17
Indeno(1,2,3-cd)pyrene	QN	0.219	QN	QN	0.219	QN	0.219
Dibenz(a,h)anthracene	QN	0.246	ON	QN	0.246	QN	0.246
Benzo(g,h,i)perylene	QN	0.236	ON	ND	0.236	QN	0.236

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

TABLE F-3. AEC - RUN NO. 1 WP TEST (1 APRIL 1998)

Compounds below the DLs are listed as nondetected (ND)

Appendix App	## 00000000000000000000000000000000000	Run 1 Train B -Detection Limit, ug	Detection Limit -	Average Minimum Detection Limit - Concentration, mg/m³
N-Nitrosodimethylamine	0.348	0.348	1.909E-04	1.909E-04
Pyridine	1.02	1.02	5.596E-04	5.596E-04
2-Picoline	1.06	1.06	5.815E-04	5.815E-04
Methyl methanesulfonate	0.401	0.401	2.200E-04	2.200E-04
N-Nitrosomethylethylamine	0.796	0.796	4.367E-04	4.367E-04
N-Nitrosodiethylamine	0.85	0.85	4.663E-04	4.663E-04
Ethyl methanesulfonate	0.391	0.391	2.145E-04	2.145E-04
Phenol	0.25	0.25	1.372E-04	1.372E-04
Aniline	0.399	0.399	2.189E-04	2.189E-04
bis(2-Chloroethyl)ether	0.312	0.312	1.712E-04	1.712E-04
Pentachloroethane	0.721	0.721	3.956E-04	3.956E-04
2-Chlorophenol	0.159	0.159	8.723E-05	8.723E-05
1,3-Dichlorobenzene	0.307	0.307	1.684E-04	1.684E-04
1,4-Dichlorobenzene	0.616	0.616	3.379E-04	3.379E-04
Benzyl alcohol	0.697	0.697	3.824E-04	3.824E-04
2-Methylphenol	0.561	0.561	3.078E-04	3.078E-04
1,2-Dichlorobenzene	0.446	0.446	2.447E-04	2.447E-04
bis(2-Chloroisopropyl)ether	0.376	0.376	2.063E-04	2.063E-04
o-Toluidine	0.396	0.396	2.173E-04	2.173E-04
4-Methylphenol/3-Methylphenol	0.474	0.474	2.600E-04	2.600E-04
N-Nitroso-di-n-propylamine	0.281	0.281	1.542E-04	1.542E-04
Acetophenone	0.295	0.295	1.618E-04	1.618E-04
N-Nitrosomorpholine	0.899	0.899	4.932E-04	4.932E-04
N-Nitrosopyrrolidine	1.19	1.19	6.529E-04	6.529E-04
Hexachloroethane	0.494	0.494	2.710E-04	2.710E-04
Nitrobenzene	0.891	0.494	4.888E-04	4.888E-04
N-Nitrosopiperidine	0.729	0.729	3.999E-04	3.999E-04
Isophorone	0.214	0.723	1.174E-04	1.174E-04
2,4-Dimethylphenol	0.337	0.214	1.849E-04	1.849E-04
2-Nitrophenol	0.536	0.536	2.941E-04	2.941E-04
bis(2-Chloroethoxy)methane	0.391	0.391	2.145E-04	2.145E-04
Benzoic acid	36.6	36.6	2.008E-02	
2,4-Dichlorophenol	0.49	0.49		2.008E-02
1,2,4-Trichlorobenzene	0.49	0.49	2.688E-04 1.937E-04	2.688E-04
Naphthalene	0.353	0.353	· · · · · · · · · · · · · · · · · · ·	1.937E-04
p-Chloroaniline			2.452E-04	2.452E-04
2,6-Dichlorophenol	0.322	0.322 0.344	1.767E-04	1.767E-04
Hexachloropropene	0.344		1.887E-04	1.887E-04
Hexachlorobutadiene	0.565	0.565	3.100E-04	3.100E-04
1	0.51	0.51	2.798E-04	2.798E-04
Dimethylphenethylamine	20.4	20.4	1.119E-02	1.119E-02

TABLE F-3. AEC - RUN NO. 1 WP TEST (1 APRIL 1998)

Compounds below the DLs are listed as nondetected (ND)

Analyte	11	Run 1 Train B -Detection Limit, ug	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
N-Nitroso-di-n-butylamine	0.374	0.374	2.052E-04	2.052E-04
4-Chloro-3-methylphenol	0.567	0.567	3.111E-04	3.111E-04
Safrole	0.711	0.711	3.901E-04	3.901E-04
2-Methylnaphthalene	0.359	0.359	1.970E-04	1.970E-04
1,2,4,5-Tetrachlorobenzene	0.546	0.546	2.995E-04	2.995E-04
Hexachlorocyclopentadiene	11.1	11.1	6.090E-03	6.090E-03
2,4,6-Trichlorophenol	0.631	0.631	3.462E-04	3.462E-04
2,4,5-Trichlorophenol	0.536	0.536	2.941E-04	2.941E-04
Isosafrole	1.08	1.08	5.925E-04	5.925E-04
2-Chloronaphthalene	0.564	0.564	3.094E-04	3.094E-04
2-Nitroaniline	0.358	0.358	1.964E-04	1.964E-04
1,4-Naphthoquinone	1	1	5.486E-04	5.486E-04
Dimethylphthalate	0.291	0.291	1.596E-04	1.596E-04
1,3-Dinitrobenzene	0.837	0.837	4.592E-04	4.592E-04
2,6-Dinitrotoluene	0.704	0.704	3.862E-04	3.862E-04
Acenaphthylene	0.327	0.327	1.794E-04	1.794E-04
3-Nitroaniline	0.881	0.881	4.833E-04	4.833E-04
4-Nitrophenol	30.7	30.7	1.684E-02	1.684E-02
2,4-Dinitrophenol	31.5	31.5	1.728E-02	1.728E-02
Acenaphthene	0.36	0.36	1.975E-04	1.975E-04
2,4-Dinitrotoluene	0.445	0.445	2.441E-04	2.441E-04
Dibenzofuran	0.244	0.244	1.339E-04	1.339E-04
Pentachlorobenzene	0.674	0.674	3.698E-04	3.698E-04
1-Naphthylamine	1.76	1.76	9.656E-04	9.656E-04
2-Naphthylamine	1.56	1.56	8.558E-04	8.558E-04
2,3,4,6-Tetrachlorophenol	0.714	0.714	3.917E-04	3.917E-04
Diethylphthalate	0.26	0.26	1.426E-04	1.426E-04
4-Chlorophenylphenyl ether	0.283	0.283	1.553E-04	1.553E-04
Fluorene	0.34	0.34	1.865E-04	1.865E-04
5-Nitro-o-toluidine	0.363	0.363	1.991E-04	1.991E-04
4-Nitroaniline	0.775	0.775	4.252E-04	4.252E-04
4,6-Dinitro-2-methylphenol	27.2	27.2	1.492E-02	1.492E-02
Diphenylamine/N-NitrosoDPA	0.368	0.368	2.019E-04	2.019E-04
sym-Trinitrobenzene	1.25	1.25	6.858E-04	6.858E-04
Diallate	0.475	0.475	2.606E-04	2.606E-04
Phenacetin	0.224	0.224	1.229E-04	1.229E-04
4-Bromophenylphenyl ether	0.689	0.689	3.780E-04	3.780E-04
Hexachlorobenzene	0.371	0.371	2.035E-04	2.035E-04
4-Aminobiphenyl	2.07	2.07	1.136E-03	1.136E-03
Pronamide	0.257	0.257	1.410E-04	1.410E-04

TABLE F-3. AEC - RUN NO. 1 WP TEST (1 APRIL 1998)

Compounds below the DLs are listed as nondetected (ND)

Analyte	A -Detection	Run 1 Train B -Detection Limit, ug	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
Pentachlorophenol	28.8	28.8	1.580E-02	1.580E-02
Pentachloronitrobenzene	1.34	1.34	7.351E-04	7.351E-04
Phenanthrene	0.61	0.61	3.347E-04	3.347E-04
Anthracene	0.366	0.366	2.008E-04	2.008E-04
Carbazole	0.245	0.245	1.344E-04	1.344E-04
Di-n-butylphthalate	0.17	0.17	9.326E-05	9.326E-05
4-Nitroquinoline-1-oxide	22.5	22.5	1.234E-02	1.234E-02
Methapyrilene	20.7	20.7	1.136E-02	1.136E-02
Fluoranthene	0.361	0.361	1.981E-04	1.981E-04
Benzidine	13.4	13.4	7.351E-03	7.351E-03
Pyrene	0.496	0.496	2.721E-04	2.721E-04
p-Dimethylaminoazobenzene	0.368	0.368	2.019E-04	2.019E-04
Chlorobenzilate	0.512	0.512	2.809E-04	2.809E-04
Kepone	18.8	18.8	1.031E-02	1.031E-02
Butylbenzylphthalate	0.205	0.205	1.125E-04	1.125E-04
3,3'-Dimethylbenzidine	1.98	1.98	1.086E-03	1.086E-03
2-Acetylaminofluorene	0.312	0.312	1.712E-04	1.712E-04
bis(2-Ethylhexyl)phthalate	1.22	1.22	6.693E-04	6.693E-04
3,3'-Dichlorobenzidine	0.335	0.335	1.838E-04	1.838E-04
Benz(a)anthracene	0.452	0.452	2.480E-04	2.480E-04
Chrysene	0.488	0.488	2.677E-04	2.677E-04
Di-n-octylphthalate	0.312	0.312	1.712E-04	1.712E-04
7,12-Dimethylbenz(a)anthracene	0.461	0.461	2.529E-04	2.529E-04
Benzo(b)fluoranthene (a)	0.278	0.278	1.525E-04	1.525E-04
Benzo(k)fluoranthene (a)	0.581	0.581	3.187E-04	3.187E-04
Benz(a)pyrene	0.329	0.329	1.805E-04	1.805E-04
3-Methylcholanthrene	1.17	1.17	6.419E-04	6.419E-04
Indeno(1,2,3-cd)pyrene	0.219	0.219	1.201E-04	1.201E-04
Dibenz(a,h)anthracene	0.246	0.246	1.350E-04	1.350E-04
Benzo(g,h,i)perylene	0.236	0.236	1.295E-04	1.295E-04

a

Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

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TABLE F-1. AEC - RUN NO. 1 IR TEST (1 APRIL 1998)
articulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap
Compounds below the DLs are listed as nondetected (ND)
Analyzed by: Radian International LLC

	Run 1 Train A -	Run 1 Train	Run 1 Train A -	Run 1 Train B -	Run 1 Train	Run 1 Train B -	Average
	Amount	A -Detection	Concentration,	Amount	B -Detection	[레스 18 - 18 HSGSS 120 (8)	Concentration -
Analyte	Detected, ug	Limit, ug	mg/m³	Detected, ug	Limit, ug	mg/m³	Run 1, mg/m³
N-Nitrosodimethylamine	ND	0.348	ND ND	ND	0.348	ND	ND
Pyridine	ND	1.02	ND ND	ND	1.02	ND	ND ND
2-Picoline	ND	1.06	ND	ND	1.06	ND	ND
Methyl methanesulfonate	ND	0.401	ND ND	ND	0.401	ND ND	ND ND
N-Nitrosomethylethylamine	ND	0.796	ND	ND	0.796	ND	ND
N-Nitrosodiethylamine	ND	0.85	ND	ND	0.85	ND	ND ND
Ethyl methanesulfonate	ND	0.391	ND	ND	0.391	ND	ND
Phenol	ND	0.25	ND	ND .	0.25	ND	ND
Aniline	ND	0.399	ND	ND	0.399	ND	ND
bis(2-Chloroethyl)ether	ND	0.312	ND	ND	0.312	ND	ND
Pentachloroethane	ND	0.721	ND	ND	0.721	ND	ND
2-Chlorophenoi	ND	0.159	ND	ND	0.159	ND	ND
1,3-Dichlorobenzene	ND	0.307	ND	ND	0.307	ND	ND
1,4-Dichlorobenzene	ND	0.616	ND	ND	0.616	ND	ND
Benzyl alcohol	ND	0.697	ND	ND	0.697	ND	ND
2-Methylphenol	ND	0.561	ND	ND	0.561	ND	ND
1,2-Dichlorobenzene	ND	0.446	ND	ND	0.446	ND	ND
bis(2-Chloroisopropyl)ether	ND ND	0.376	ND	ND	0.376	ND	ND
o-Toluidine	ND ND	0.396	ND ND	ND ND	0.396	ND	ND
4-Methylphenol/3-Methylphenol	ND ND	0.474 0.281	ND ND	ND ND	0.474	ND ND	ND ND
N-Nitroso-di-n-propylamine Acetophenone	0.755	0.281	2.496E-03	0.896	0.281 0.295		ND 0.000F-00
I-Nitrosomorpholine	0.755 ND	0.295	2.496E-03 ND	0.896 ND	0.899	3.269E-03 ND	2.883E-03 ND
N-Nitrosopyrrolidine	ND	1.19	ND ND	ND	1.19	ND	ND
Hexachioroethane	ND ND	0.494	ND	ND	0.494	ND	ND ND
Nitrobenzene	ND ND	0.891	ND	ND	0.891	ND	ND ND
N-Nitrosopiperidine	ND	0.729	ND	ND	0.729	ND	ND ND
Isophorone	ND	0.214	ND	ND	0.214	ND	ND ND
2,4-Dimethylphenol	ND	0.337	ND	ND	0.337	ND	ND
2-Nitrophenol	NĐ	0.536	ND	ND	0.536	ND	ND
bis(2-Chloroethoxy)methane	ND	0.391	ND	ND	0.391	ND	ND
Benzoic acid	ND	36.6	ND	ND	36.6	ND	ND
2,4-Dichlorophenol	ND	0.49	ND	ND	0.49	ND	ND
1,2,4-Trichlorobenzene	ND	0.353	ND	ND	0.353	ND	ND
Naphthalene	1.62	0.447	5.357E-03	1.59	0.447	5.801E-03	5.579E-03
p-Chloroaniline	ND	0.322	ND	ND	0.322	ND	ND
2,6-Dichlorophenol	ND	0.344	ND	ND	0.344	ND	ND
Hexachloropropene	ND	0.565	ND ND	ND	0.565	ND	ND .
Hexachlorobutadiene	ND ND	0.51 20.4	ND ND	ND ND	0.51	ND	ND ·
Dimethylphenethylamine N-Nitroso-di-n-butylamine	ND ND	0.374	ND ND	ND ND	20.4	ND ND	ND ND
4-Chloro-3-methylphenol	ND ND	0.567	ND ND	ND ND	0.374 0.567	ND ND	ND ND
Safrole	ND ND	0.307	ND ND	ND ND	0.567	ND ND	ND ND
2-Methylnaphthalene	ND ND	0.359	ND	ND ND	0.711	ND ND	ND ND
1,2,4,5-Tetrachlorobenzene	ND	0.546	ND	ND	0.546	ND	ND ND
Hexachlorocyclopentadiene	ND	11.1	ND	ND	11.1	ND	ND ND
2,4,6-Trichlorophenol	ND	0.631	ND ND	ND	0.631	ND	ND ND
2,4,5-Trichlorophenol	ND	0.536	ND	ND	0.536	ND	ND ND
Isosafrole	ND	1.08	ND	ND	1.08	ND	ND
2-Chloronaphthalene	ND	0.564	ND	ND	0.564	ND	ND ND
2-Nitroaniline	ND	0.358	ND	ND	0.358	ND	ND
1,4-Naphthoquinone	ND	1	ND	ND	1	ND	ND
Dimethylphthalate	ND	0.291	ND	ND	0.291	ND	ND
1,3-Dinitrobenzene	ND	0.837	ND	ND	0.837	ND	ND
2,6-Dinitrotoluene	ND	0.704	ND	ND	0.704	ND	ND
Acenaphthylene	ND	0.327	ND	ND	0.327	ND	ND
3-Nitroaniline	ND	0.881	ND	ND	0.881	ND	ND

TABLE F-1. AEC - RUN NO. 1 IR TEST (1 APRIL 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

4-Nitrophenol 2,4-Dinitrophenol Acenaphthene 2,4-Dinitrotoluene Dibenzofuran	Amount Detected, ug ND ND	A -Detection Limit, ug	Concentration,		B -Detection	Concentration,	Concentration -
4-Nitrophenol 2,4-Dinitrophenol Acenaphthene 2,4-Dinitrotoluene Dibenzofuran	ND ND	الكسنا	mg/m³	Amount Detected, ug	Limit, ug	mg/m³	Run 1, mg/m³
2,4-Dinitrophenol Acenaphthene 2,4-Dinitrotoluene Dibenzofuran	ND	30.7	ND	ND	30.7	ND	ND
Acenaphthene 2,4-Dinitrotoluene Dibenzofuran		31.5	ND	ND	31.5	ND	ND
2,4-Dinitrotoluene Dibenzofuran	ND	0.36	ND	ND	0.36	ND	ND
Dibenzofuran	ND	0.445	ND	ND	0.445	ND	ND
	ND	0.244	ND	ND	0.244	ND	ND
Pentachlorobenzene	ND	0.674	ND	ND	0.674	ND	ND
1-Naphthylamine	ND	1.76	ND	ND	1.76	ND	ND
2-Naphthylamine	ND	1.56	ND	ND	1.56	ND	ND
2,3,4,6-Tetrachlorophenol	ND	0.714	ND	ND	0.714	ND	ND
Diethylphthalate	0.675	0.26	2.232E-03	0.362	0.26	1.321E-03	1.776E-03
4-Chlorophenylphenyl ether	ND	0.283	ND	ND	0.283	ND	ND
Fluorene	ND	0.34	ND	ND	0.34	ND	ND
5-Nitro-o-toluidine	ND	0.363	ND	ND	0.363	ND	ND
4-Nitroaniline	ND	0.775	ND	ND	0.775	ND	ND
4,6-Dinitro-2-methylphenol	ND	27.2	ND	ND	27.2	ND	ND
Diphenylamine/N-NitrosoDPA	ND	0.368	ND	ND	0.368	ND	ND
sym-Trinitrobenzene	ND	1.25	ND	ND	1.25	ND	ND
Diallate	ND	0.475	ND	ND	0.475	ND	ND
Phenacetin	ND	0.224	ND	ND	0.224	ND	ND
4-Bromophenylphenyl ether	ND	0.689	ND	ND	0.689	ND	ND
Hexachlorobenzene	ND	0.371	ND	ND	0.371	ND	ND
4-Aminobiphenyl	ND	2.07	ND	ND	2.07	ND	ND
Pronamide	ND	0.257	ND	ND	0.257	ND	ND
Pentachlorophenol	ND	28.8	ND	ND	28.8	ND	ND
Pentachloronitrobenzene	ND	1.34	ND	ND	1.34	ND	ND
Phenanthrene	0.411	0.61	ND	0.318	0.61	ND	ND
Anthracene	ND	0.366	ND	ND	0.366	ND	ND
Carbazole	ND	0.245	ND	ND	0.245	ND	ND
Di-n-butylphthalate	1.42	0.17	4.695E-03	0.948	0.17	3.458E-03	4.077E-03
4-Nitroquinoline-1-oxide	ND	22.5	ND	ND	22.5	ND	ND
Methapyrilene	ND	20.7	ND	ND	20.7	ND	ND
Fluoranthene	ND	0.361	ND	ND	0.361	ND	ND
Benzidine	ND	13.4	ND	ND	13.4	ND	ND ND
Pyrene	ND	0.496	ND	ND	0.496	ND	ND
p-Dimethylaminoazobenzene	ND .	0.368	ND	ND	0.368	ND ND	ND ND
Chlorobenzilate	ND	0.512	ND ND	ND	0.512 18.8	ND ND	ND ND
Kepone	ND	18.8	ND ND	ND 0.83		3.028E-03	3.028E-03
Butylbenzylphthalate 3,3'-Dimethylbenzidine	ND ND	0.205 1.98	ND ND	0.83 ND	0.205 1.98	3.028E-03 ND	3.028E-03 ND
	ND ND	0.312	ND ND	ND ND	0.312	ND ND	ND ND
2-Acetylaminofluorene	ND ND	1.22	ND ND	ND ND	1.22	ND ND	ND ND
bis(2-Ethylhexyl)phthalate	ND ND	0.335	ND ND	ND ND	0.335	ND ND	ND ND
3,3'-Dichlorobenzidine	ND ND	0.335	ND ND	ND ND	0.335	ND ND	ND ND
Benz(a)anthracene	ND ND		ND ND	ND ND	0.488	ND ND	ND ND
Chrysene Di-n-octylphthalate	ND ND	0.488 0.312	ND ND	ND ND	0.466	ND	ND ND
7,12-Dimethylbenz(a)anthracene	ND	0.312	ND ND	ND ND	0.461	ND	ND ND
Benzo(b)fluoranthene (a)	ND	0.461	ND ND	ND ND	0.401	ND ND	ND
Benzo(k)fluoranthene (a)	ND ND	0.278	ND ND	ND ND	0.581	ND	ND
Benzo(k)huoranthene (a) Benz(a)pyrene	ND ND	0.329	ND ND	ND ND	0.329	ND ND	ND
3-Methylcholanthrene	ND ND	1.17	ND ND	ND ND	1.17	ND ND	ND
Indeno(1,2,3-cd)pyrene	ND ND	0.219	ND	ND ND	0.219	ND	ND
Dibenz(a,h)anthracene	ND ND	0.219	ND ND	ND ND	0.219	ND	ND ND
Benzo(g,h,i)perylene	ND ND	0.246	ND ND	ND ND	0.236	ND	ND ND

TABLE F-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK
Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected

on filter and resin trap Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

Analyte	Background - - Amount Detected, ug	Background - Detection Limit, ug	Background - Concentration, mg/m³	Reagent Blank - Amount Detected, ug	Reagent Blank - Detection Limit, ug	Field Blank - Amount Detected, ug	Field Blank - Detection Limit, ug
N-Nitrosodimethylamine	ND	0.348	ND	QN	0.348	DN	0.348
Pyridine	ND	1.02	QN	QN	1.02	QN	1.02
2-Picoline	QN	1.06	QN	QN	1.06	ND	1.06
Methyl methanesulfonate	QN	0.401	ND	QN	0.401	ND	0.401
N-Nitrosomethylethylamine	ND	0.796	ON	QN	0.796	QN	0.796
N-Nitrosodiethylamine	QN	0.85	Q	QV	0.85	Q	0.85
Ethyl methanesulfonate	QN	0.391	ND	QN	0.391	QN	0.391
Phenol	QN	0.25	ND	QN	0.25	QN	0.25
Aniline	QN	668'0	QN	QN	0.399	QN	0.399
bis(2-Chloroethyl)ether	ND	0.312	QN	QN	0.312	QN	0.312
Pentachloroethane	ND	0.721	QN	ΩN	0.721	QN	0.721
2-Chlorophenol	ND	0.159	ND	QN	0.159	ND	0.159
1,3-Dichlorobenzene	ND	0.307	ND	DN	0.307	QN	0.307
1,4-Dichlorobenzene	ND	0.616	ND	QN	0.616	QN	0.616
Benzyl alcohol	ND	0.697	QN	QN	269.0	QN	0.697
2-Methylphenol	ND	0.561	ND	QN	0.561	ON	0.561
1,2-Dichlorobenzene	ND	0.446	ND	QN	0.446	ND	0.446
bis(2-Chloroisopropyl)ether	ND	0.376	ND	QN	0.376	ND	0.376
o-Toluidine	ND	0.396	ND	QN	968'0	QN	0.396
4-Methylphenol/3-Methylphenol	QN	0.474	ND	QN	0.474	QN	0.474
N-Nitroso-di-n-propylamine	ND	0.281	ND	QN	0.281	QN	0.281
Acetophenone	0.711	0.295	2.071E-04	0.578	0.295	QN	0.295
N-Nitrosomorpholine	ND	0.899	ND	QN	0.899	QN	0.899
N-Nitrosopyrrolidine	S	1.19	ND	ND	1.19	QN	1.19
Hexachloroethane	NΩ	0.494	ND	QN	0.494	ND	0.494
Nitrobenzene	QN	0.891	ND	ON	0.891	QN	0.891
N-Nitrosopiperidine	ND	0.729	ND	QN	0.729	QN	0.729
Isophorone	ND	0.214	ND	QN	0.214	ND	0.214
2,4-Dimethylphenol	ND	0.337	ND	ND	0.337	ND	0.337
2-Nitrophenol	ND	0.536	S	QN	0.536	Q	0.536
bis(2-Chloroethoxy)methane	QN	0.391	QN	QN	0.391	۵	0.391
Benzoic acid	QQ	36.6	Q	Q	36.6	Q	36.6

TABLE F-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected

on filter and resin trap Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC

ug ug mg/m³ Defected, ug ug 0.49 ND ND 0.49 0.353 ND ND 0.447 0.353 ND ND 0.447 0.322 ND ND 0.447 0.324 ND ND 0.512 0.344 ND ND 0.545 0.556 ND ND 0.546 0.51 ND ND 0.547 0.567 ND ND 0.546 0.51 ND ND 0.547 0.374 ND ND 0.546 0.51 ND ND 0.547 0.374 ND ND 0.546 0.526 ND ND 0.546 0.536 ND ND 0.546 0.536 ND ND 0.546 0.536 ND ND 0.546 0.536 ND ND 0.704 0.546<		Background -	Background -	Background -	Reagent Blank -	Reagent Blank -	Field Blank -	Field Blank -
ND 0.49 ND ND 0.49 ND 0.353 ND ND 0.353 ND 0.447 ND ND 0.353 ND 0.344 ND ND 0.347 ND 0.565 ND ND 0.347 ND 0.565 ND ND 0.565 ND 0.567 ND ND 0.567 ND 0.374 ND ND 0.567 ND 0.567 ND ND 0.564 ND 0.564 ND ND 0.564 ND 0.564	Analyte	Detected, ug	6n	mg/m³	Detected, ug	Вn	Detected, ug	ng
ND 0.353 ND ND 0.353 ND 0.247 ND ND 0.347 ND 0.347 ND ND 0.342 ND 0.352 ND ND 0.342 ND 0.555 ND ND 0.565 ND 0.571 ND ND 0.574 ND 0.557 ND ND 0.571 ND 0.567 ND ND 0.567 ND 0.558 ND ND 0.567 ND 0.556 ND ND 0.567 ND 0.556 ND ND 0.567 ND 0.567 ND ND 0.567 ND 0.567 ND ND 0.567 ND 0.556 ND ND 0.564 ND 0.564 ND ND 0.564 ND 0.564 ND ND 0.564 ND 0.0	2,4-Dichlorophenol	QN	0.49	QN	QN	0.49	QN	0.49
ND 0.447 ND ND 0.447 ND 0.322 ND ND 0.3322 ND 0.565 ND ND 0.565 ND 0.565 ND ND 0.567 ND 0.51 ND ND 0.51 ND 0.574 ND ND 0.51 ND 0.567 ND ND 0.567 ND 0.567 ND ND 0.567 ND 0.546 ND ND 0.546 ND 0.631 ND ND 0.546 ND 0.631 ND ND 0.546 ND 0.631 ND ND 0.536 ND 0.536 ND ND 0.536 ND 0.536 ND ND 0.536 ND 0.538 ND ND 0.536 ND 0.538 ND ND 0.634 ND 0.032	1,2,4-Trichlorobenzene	QN	0.353	ND	QN	0.353	ON	0.353
ND 0.322 ND ND 0.324 ND 0.565 ND ND 0.565 ND 0.565 ND ND 0.565 ND 0.565 ND ND 0.565 ND 0.51 ND ND 0.51 ND 0.0374 ND ND 0.574 ND 0.717 ND ND 0.577 ND 0.746 ND ND 0.711 ND 0.546 ND ND 0.556 ND 0.546 ND ND 0.556 ND 0.536 ND ND 0.536 ND 0.536 ND ND 0.536 ND 0.554 ND ND 0.536 ND 0.254 ND ND 0.536 ND 0.254 ND ND 0.536 ND 0.254 ND ND 0.536 ND 0.32	Naphthalene	QN	0.447	QN	QN	0.447	QN	0.447
ND 0.344 ND ND 0.344 ND 0.565 ND ND 0.565 ND 0.51 ND ND 0.51 ND 20.4 ND ND 0.51 ND 0.374 ND ND 0.374 ND 0.567 ND ND 0.567 ND 0.567 ND ND 0.546 ND 0.568 ND ND 0.546 ND 0.564 ND ND 0.564 ND 0.564 ND ND 0.564 ND 0.564 ND ND 0.564 ND 0.358 ND ND 0.564 ND 0.358 ND ND 0.358 ND 0.369 </td <td>p-Chloroaniline</td> <td>QN</td> <td>0.322</td> <td>ON</td> <td>QN</td> <td>0.322</td> <td>QN</td> <td>0.322</td>	p-Chloroaniline	QN	0.322	ON	QN	0.322	QN	0.322
ND 0.565 ND ND 0.565 ND 0.51 ND ND 0.51 ND 20.4 ND ND 0.51 ND 0.567 ND ND 0.567 ND 0.711 ND ND 0.711 ND 0.546 ND ND 0.586 ND 0.631 ND ND 0.536 ND 0.564 ND ND 0.536 ND 0.291 ND ND 0.536 ND 0.0291 ND ND 0.704 ND 0.036<	2,6-Dichlorophenol	ΩN	0.344	QN	QN	0.344	ON	0.344
ND 0.51 ND ND 0.51 ND 20.4 ND ND 0.5174 ND 0.374 ND ND 0.5374 ND 0.359 ND ND 0.546 ND 0.546 ND ND 0.359 ND 0.546 ND ND 0.546 ND 0.546 ND ND 0.546 ND 0.546 ND ND 0.546 ND 0.531 ND ND 0.546 ND 0.534 ND ND 0.546 ND 0.534 ND ND 0.564 ND 0.554 ND ND 0.564 ND 0.554 ND ND 0.564 ND 0.564 ND ND 0.564 ND 0.564 ND ND 0.564 ND 0.534 ND ND 0.564 ND 0.08	Hexachloropropene	ΩN	0.565	ON	QN	0.565	QN	0.565
e ND 20.4 ND ND 20.4 e ND 0.374 ND ND 0.374 ND 0.567 ND ND 0.567 ND 0.571 ND ND 0.546 ND 0.546 ND ND 0.546 ND 0.546 ND ND 0.546 ND 0.536 ND ND 0.536 ND 0.631 ND ND 0.536 ND 0.536 ND ND 0.536 ND 0.536 ND ND 0.536 ND 0.536 ND ND 0.564 ND 0.536 ND ND 0.564 ND 0.536 ND ND 0.536 ND 0.291 ND ND 0.536 ND 0.292 ND ND 0.536 ND 0.364 ND ND 0.536	Hexachlorobutadiene	QN	0.51	QN	QN	0.51	QN	0.51
e ND 0.374 ND ND 0.374 ND 0.567 ND ND 0.567 ND 0.0711 ND ND 0.567 ND 0.359 ND ND 0.546 ND 0.546 ND ND 0.546 ND 0.631 ND ND 0.536 ND 0.636 ND ND 0.536 ND 0.564 ND ND 0.536 ND 0.291 ND ND 0.291 ND 0.281 ND ND 0.291 ND<	Dimethylphenethylamine	ΩN	20.4	ND	QN	20.4	ND	20.4
ND 0.567 ND ND 0.567 ND 0.711 ND ND 0.711 ND 0.359 ND ND 0.359 ND 0.546 ND ND 0.546 ND 0.536 ND ND 0.546 ND 0.536 ND ND 0.536 ND 0.564 ND ND 0.536 ND 0.254 ND ND 0.564 ND 0.254 ND ND 0.254 ND 0.2	N-Nitroso-di-n-butylamine	ΩN	0.374	QN	QN	0.374	ON	0.374
ND 0.711 ND ND 0.711 Inzene ND 0.359 ND ND 0.359 Inzene ND 0.546 ND ND 0.546 ND 0.546 ND ND 0.546 ND 0.631 ND ND 0.536 ND 0.554 ND ND 0.536 ND 0.554 ND ND 0.564 ND 0.554 ND ND 0.564 ND 0.554 ND ND 0.564 ND 0.358 ND ND 0.564 ND 0.254 ND ND 0.564 ND 0.291 ND ND 0.564 ND 0.291 ND ND 0.581 ND 0.704 ND ND 0.631 ND 0.327 ND ND 0.327 ND 0.36 ND ND 0.364 <td>4-Chloro-3-methylphenol</td> <td>ΩN</td> <td>0.567</td> <td>ND</td> <td>ON</td> <td>0.567</td> <td>QN</td> <td>0.567</td>	4-Chloro-3-methylphenol	ΩN	0.567	ND	ON	0.567	QN	0.567
ND 0.359 ND ND 0.359 adiene ND 0.546 ND 0.546 adiene ND 11.1 ND 0.546 ND 0.631 ND 0.536 ND 0.536 ND 0.536 ND ND 0.536 ND 0.536 ND 0.564 ND ND 0.536 ND 0.536 ND 0.291 ND ND 0.556 ND 0.556 ND 0.291 ND ND 0.558 ND 0.558 ND 0.291 ND ND 0.558 ND 0.558 ND ND 0.837 ND ND 0.291 ND ND 0.704 ND ND 0.704 ND 0.837 ND 0.327 ND ND 0.324 ND 0.36 ND 0.346 ND ND 0.345 ND 0.346 <t< td=""><td>Safrole</td><td>ΩN</td><td>0.711</td><td>ON</td><td>QN</td><td>0.711</td><td>QN</td><td>0.711</td></t<>	Safrole	ΩN	0.711	ON	QN	0.711	QN	0.711
nzene ND 0.546 ND 0.546 adiene ND 11.1 ND 0.536 ND 0.631 ND 0.631 11.1 ND 0.536 ND 0.536 1.08 ND 0.564 ND ND 0.564 ND 0.264 ND ND 0.564 ND 0.291 ND ND 0.291 ND 0.202 ND ND 0.291 ND 0.381 ND ND 0.381 ND	2-Methylnaphthalene	QN	0.359	ND	QN	0.359	QN	0.359
adiene ND 11.1 ND 11.1 ND 0.631 ND ND 0.631 ND 0.536 ND ND 0.536 ND 0.564 ND ND 0.564 ND 0.564 ND ND 0.564 ND 0.358 ND ND 0.564 ND 0.291 ND ND 0.291 ND 0.0291 ND 0.0291 ND ND 0.037 ND ND 0.0704 ND 0.037 ND ND 0.0704 ND 0.327 ND ND 0.327 ND 0.381 ND ND 0.327 ND 0.381 ND 0.327 ND ND 0.364 ND 0.367 ND ND 0.445 ND 0.244 0.244 ND 0.674 ND 0.674 ND 0.674	1,2,4,5-Tetrachlorobenzene	QΝ	0.546	ON	QN	0.546	QN	0.546
ND 0.631 ND 0.634 ND 0.536 ND ND 0.536 ND 1.08 ND ND 0.536 ND 0.564 ND ND 0.564 ND 0.358 ND ND 0.564 ND 0.291 ND 0.358 ND 0.291 ND 0.291 ND 0.2704 ND 0.291 ND 0.337 ND 0.704 ND 0.327 ND 0.704 ND 0.327 ND 0.327 ND 0.327 ND 0.381 ND 0.381 ND 0.381 ND 0.381 ND 0.881 ND 0.381 ND 0.381 ND 0.36 ND ND 0.367 ND 0.445 ND 0.245 0.244 ND 0.674 ND 0.674 0.674	Hexachlorocyclopentadiene	QN	11.1	ND	QN	11.1	QN	11.1
ND 0.536 ND ND 0.536 ND 1.08 ND ND 1.08 ND 0.564 ND ND 0.564 ND 0.358 ND ND 0.564 ND 0.358 ND ND 0.358 ND 0.291 ND ND 0.291 ND 0.294 ND ND 0.291 ND 0.037 ND ND 0.837 ND 0.704 ND ND 0.704 ND 0.327 ND ND 0.327 ND 0.881 ND ND 0.381 ND 0.881 ND ND 0.381 ND 0.891 ND ND 0.381 ND 0.36 ND ND 0.361 ND 0.36 ND 0.36 ND ND 0.674 ND 0.674 ND ND 0.674 <td>2,4,6-Trichlorophenol</td> <td>QN</td> <td>0.631</td> <td>QN</td> <td>QN</td> <td>0.631</td> <td>ND</td> <td>0.631</td>	2,4,6-Trichlorophenol	QN	0.631	QN	QN	0.631	ND	0.631
ND 1.08 ND ND 1.08 ND 0.564 ND ND 0.564 ND 0.358 ND ND 0.358 ND 0.291 ND ND 0.291 ND 0.291 ND ND 0.291 ND 0.704 ND ND 0.291 ND 0.704 ND ND 0.291 ND 0.704 ND ND 0.704 ND 0.327 ND ND 0.327 ND 0.881 ND ND 0.881 ND 0.881 ND ND 0.881 ND 0.891 ND ND 0.881 ND 0.36 ND ND 0.881 ND 0.36 ND ND 0.36 ND 0.244 ND 0.674 ND ND 0.674 ND 0.674 ND ND 0.674 <td>2,4,5-Trichlorophenol</td> <td>QΝ</td> <td>0.536</td> <td>ON</td> <td>QN</td> <td>0.536</td> <td>QN</td> <td>0.536</td>	2,4,5-Trichlorophenol	QΝ	0.536	ON	QN	0.536	QN	0.536
ND 0.564 ND ND 0.564 ND 0.358 ND ND 0.358 ND 0.291 ND 0.291 ND 0.291 ND 0.291 ND ND 0.291 ND 0.291 ND 0.291 ND ND 0.291 ND 0.204 ND 0.204 ND 0.204 ND 0.327 ND 0.327 ND 0.381 ND 0.381 ND 0.327 ND 0.381 ND 0.361 ND 0.361 ND 0.362 ND 0.362 ND 0.345 ND 0.674 ND 0.674 ND 0.674 ND 0.674 ND 0.674 ND 0.776 ND 0.674 ND 0.674 ND <t< td=""><td>Isosafrole</td><td>QN</td><td>1.08</td><td>ON</td><td>ND</td><td>1.08</td><td>QN</td><td>1.08</td></t<>	Isosafrole	QN	1.08	ON	ND	1.08	QN	1.08
windle ND 0.358 ND 0.358 lutinone ND 1 ND 1 1 nzene ND 0.291 ND 0.291 ND 0.291 nzene ND 0.837 ND ND 0.837 ND snee ND 0.704 ND ND 0.704 ND snee ND 0.327 ND ND 0.327 ND enol ND 0.881 ND ND 0.881 ND enol ND 31.5 ND ND 31.5 ND enol ND 0.36 ND ND 0.36 ND nend ND 0.445 ND ND 0.244 ND nendene ND 0.674 ND ND 0.674 ND nine ND 0.674 ND ND 0.674 ND	2-Chloronaphthalene	QN	0.564	QN	QN	0.564	QN	0.564
ND 1 ND ND 1 ND 0.291 ND 0.291 0.291 ND 0.837 ND ND 0.837 ND 0.704 ND ND 0.704 ND 0.327 ND ND 0.327 ND 0.881 ND ND 0.881 ND 30.7 ND ND 0.881 ND 31.5 ND ND 30.7 ND 0.36 ND ND 0.36 ND 0.36 ND 0.36 ND 0.244 ND 0.244 ND 0.674 ND ND 0.674 ND 1.76 ND ND 1.76	2-Nitroaniline	QN	0.358	ND	QN	0.358	QN	0.358
ND 0.291 ND 0.291 ND 0.837 ND 0.837 ND 0.704 ND 0.704 ND 0.327 ND 0.327 ND 0.381 ND 0.881 ND 30.7 ND ND ND 31.5 ND 30.7 ND 0.36 ND 0.36 ND 0.445 ND 0.445 ND 0.674 ND 0.674 ND 1.76 ND 1.76	1,4-Naphthoquinone	QN	1	ND	QN	1	QN	1
ND 0.837 ND 0.837 ND 0.704 ND ND 0.704 ND 0.327 ND ND 0.327 ND 0.881 ND ND 0.881 ND 30.7 ND ND 0.881 ND 31.5 ND ND 30.7 ND 0.36 ND ND 0.36 ND 0.445 ND ND 0.445 ND 0.674 ND ND 0.674 ND 1.76 ND 1.76	Dimethylphthalate	QN	0.291	QN	ON	0.291	QN	0.291
ND 0.704 ND ND 0.704 ND 0.327 ND ND 0.327 ND 0.881 ND ND 0.881 ND 30.7 ND ND 0.881 ND 31.5 ND ND 30.7 ND 0.36 ND ND 0.36 ND 0.445 ND ND 0.445 ND 0.674 ND ND 0.674 ND 1.76 ND ND 1.76	1,3-Dinitrobenzene	ON	0.837	QN	QN	0.837	QN	0.837
ND 0.327 ND ND 0.327 ND 0.881 ND ND 0.881 ND 30.7 ND ND 30.7 ND 31.5 ND ND 31.5 ND 0.36 ND ND 0.36 ND 0.245 ND ND 0.445 ND 0.674 ND ND 0.674 ND 1.76 ND ND 1.76	2,6-Dinitrotoluene	QN	0.704	ON	QN	0.704	QN	0.704
ND 0.881 ND ND 0.881 ND 30.7 ND ND 30.7 ND 31.5 ND ND 31.5 ND 0.36 ND ND 0.36 ND 0.445 ND ND 0.445 ND 0.244 ND 0.244 ND 0.674 ND 0.674 ND 1.76 ND 1.76	Acenaphthylene	ND	0.327	ON	ND	0.327	ON	0.327
ND 30.7 ND ND 30.7 ND 31.5 ND ND 31.5 ND 0.36 ND ND 0.36 ND 0.445 ND ND 0.445 ND 0.244 ND 0.674 ND 0.674 ND ND 0.674 ND 1.76 ND 1.76 1.76	3-Nitroaniline	ON	0.881	QN	ND	0.881	QN	0.881
ND 31.5 ND ND 31.5 ND 0.36 ND ND 0.36 ND 0.445 ND ND 0.445 ND 0.244 ND 0.244 ND 0.674 ND 0.674 ND 1.76 ND 1.76	4-Nitrophenol	ON	30.7	ND	ON	30.7	QN	30.7
ND 0.36 ND ND 0.36 ND 0.445 ND ND 0.445 ND 0.244 ND 0.244 ND 0.674 ND 0.674 ND 1.76 ND 1.76	2,4-Dinitrophenol	QN	31.5	QN	QN	31.5	QN	31.5
ND 0.445 ND ND 0.445 ND 0.244 ND ND 0.244 ND 0.674 ND ND 0.674 ND ND ND 1.76	Acenaphthene	ND	0.36	ON	ON	0.36	ON	0.36
ND 0.244 ND 0.244 ND 0.674 ND ND 0.674 ND 1.76 ND ND 1.76	2,4-Dinitrotoluene	Q	0.445	QN	QN	0.445	QN	0.445
ND 0.674 ND ND 0.674 ND 1.76 ND 1.76	Dibenzofuran	Q	0.244	QN	Q	0.244	Q	0.244
ND 1.76 ND ND 1.76	Pentachlorobenzene	Q	0.674	QN	Q	0.674	QN	0.674
	1-Naphthylamine	QN	1.76	QN	Q	1.76	QN	1.76

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap Compounds below the DLs are listed as nondetected (ND) Analyzed by: Radian International LLC TABLE F-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Analyte	Background - Amount Detected, ug	Background - Detection Limit, ug §	Background - Concentration, mg/m³	Reagent Blank - Amount Detected, ug	Reagent Blank - Detection Limit, ug	Field Blank - Amount Detected, ug	Field Blank - Detection Limit, ug
2-Naphthylamine	QN	1.56	ON	QN	1.56	QN	1.56
2,3,4,6-Tetrachlorophenol	QN	0.714	ND	QN	0.714	QN	0.714
Diethylphthalate	0.474	0.26	1.381E-04	QN	0.26	QN	0.26
4-Chlorophenylphenyl ether	QN	0.283	ND	QN	0.283	QN	0.283
Fluorene	an	0.34	ND	QN	0.34	QN	0.34
5-Nitro-o-toluidine	ΩN	698.0	ON	ΩN	0.363	QN	0.363
4-Nitroaniline	ND	0.775	ND	QN	0.775	QN	0.775
4,6-Dinitro-2-methylphenol	QN .	27.2	ND	QN	27.2	QN	27.2
Diphenylamine/N-NitrosoDPA	ND	898.0	ND	QN	0.368	DN	0.368
sym-Trinitrobenzene	ND	1.25	ND	QN	1.25	ON	1.25
Diallate	ND	0.475	ND	QN	0.475	ND	0.475
Phenacetin	ND	0.224	ND	QN	0.224	ND	0.224
4-Bromophenylphenyl ether	ND	689'0	ND	QN	689.0	ND	0.689
Hexachlorobenzene	ND	0.371	ND	QN	0.371	ND	0.371
4-Aminobiphenyl	ND	2.07	ND	QN	2.07	ON	2.07
Pronamide	ND	0.257	ND	QN	0.257	QN	0.257
Pentachlorophenol	ND	28.8	ND	QN	28.8	QN	28.8
Pentachloronitrobenzene	ND	1.34	ND	QN	1.34	QN	1.34
Phenanthrene	ND	0.61	ND	QN	0.61	ON	0.61
Anthracene	ON	0.366	ND	QN	0.366	QN	0.366
Carbazole	N	0.245	ND	ND	0.245	QN	0.245
Di-n-butylphthalate	2.64	0.17	7.691E-04	5.39	0.17	2.93	0.17
4-Nitroquinoline-1-oxide	Q	22.5	ND	ND	22.5	ND	22.5
Methapyrilene	Q	20.7	9	Q	20.7	Q	20.7
Fluoranthene	ND	0.361	S	ND	0.361	QN	0.361
Benzidine	ND	13.4	ND	QN	13.4	ND	13.4
Pyrene	ND	0.496	ND	ON	0.496	ND	0.496
p-Dimethylaminoazobenzene	ND	0.368	ND	ND	0.368	ND	0.368
Chlorobenzilate	ND	0.512	ND	ND	0.512	ND	0.512
Kepone	ND	18.8	ND	ON	18.8	ΩN	18.8
Butylbenzylphthalate	ND	0.205	ND ON	ND	0.205	0.514	0.205
3,3'-Dimethylbenzidine	ND	1.98	ND	ND	1.98	QN	1.98

TABLE F-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK
Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap
Compounds below the DLs are listed as nondetected (ND)
Analyzed by: Radian International LLC

	Background - Amount	Background - Detection Limit,	Background - Concentration,	Reagent Blank - Amount	Reagent Blank - Detection Limit,	Field Blank - Amount	Field Blank - Detection Limit,
Analyte	Detected, ug	бn	mg/m³	Detected, ug	Вn	Detected, ug	gn
2-Acetylaminofluorene	QN	0.312	QN	QN	0.312	ND	0.312
bis(2-Ethylhexyl)phthalate	QN	1.22	QN	QN	1.22	2.56	1.22
3,3'-Dichlorobenzidine	ΩN	988.0	ON	ON	0.335	QN	0.335
Benz(a)anthracene	QN	0.452	QN	QN	0.452	QN	0.452
Chrysene	QN	0.488	QN	QN	0.488	QN	0.488
Di-n-octylphthalate	ΩN	0.312	ND	QN	0.312	ND	0.312
7,12-Dimethylbenz(a)anthracene	QN	0.461	ON	QN	0.461	QN	. 0.461
Benzo(b)fluoranthene (a)	QN	0.278	QN	ND	0.278	QN	0.278
Benzo(k)fluoranthene (a)	QN	0.581	QN	ND	0.581	QN	0.581
Benz(a)pyrene	QN	0.329	ON	ND	0.329	QN	0.329
3-Methylcholanthrene	QN	1.17	QN	QN	1.17	QN	1.17
Indeno(1,2,3-cd)pyrene	QN	0.219	QN	ND	0.219	ND	0.219
Dibenz(a,h)anthracene	QN	0.246	QN	ND	0.246	QN	0.246
Benzo(g,h,i)perylene	QN	0.236	QN	QN	0.236	QN	0.236

a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.

TABLE F-3. AEC - RUN NO. 1 IR TEST (1 APRIL 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

Compounds below the DLs are listed as nondetected (ND)

State	M 🚺 Ngjujaku zi Aghid Nizon, a Tayyik da 1	Run 1 Train B -Detection Limit, ug	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
N-Nitrosodimethylamine	0.348	0.348	1.207E-03	1.207E-03
Pyridine	1.02	1.02	3.538E-03	3.538E-03
2-Picoline	1.06	1.06	3.677E-03	3.677E-03
Methyl methanesulfonate	0.401	0.401	1.391E-03	1.391E-03
N-Nitrosomethylethylamine	0.796	0.796	2.761E-03	2.761E-03
N-Nitrosodiethylamine	0.85	0.85	2.949E-03	2.949E-03
Ethyl methanesulfonate	0.391	0.391	1.356E-03	1.356E-03
Phenol	0.25	0.25	8.673E-04	8.673E-04
Aniline	0.399	0.399	1.384E-03	1.384E-03
bis(2-Chloroethyl)ether	0.312	0.312	1.082E-03	1.082E-03
Pentachloroethane	0.721	0.721	2.501E-03	2.501E-03
2-Chlorophenol	0.159	0.159	5.516E-04	5.516E-04
1,3-Dichlorobenzene	0.307	0.307	1.065E-03	1.065E-03
1,4-Dichlorobenzene	0.616	0.616	2.137E-03	2.137E-03
Benzyl alcohol	0.697	0.697	2.418E-03	2.418E-03
2-Methylphenol	0.561	0.561	1.946E-03	1.946E-03
1,2-Dichlorobenzene	0.446	0.446	1.547E-03	1.547E-03
bis(2-Chloroisopropyl)ether	0.376	0.376	1.304E-03	1.304E-03
o-Toluidine	0.396	0.396	1.374E-03	1.374E-03
4-Methylphenol/3-Methylphenol	0.474	0.474	1.644E-03	1.644E-03
N-Nitroso-di-n-propylamine	0.281	0.281	9.748E-04	9.748E-04
Acetophenone	0.295	0.295	1.023E-03	1.023E-03
N-Nitrosomorpholine	0.899	0.899	3.119E-03	3.119E-03
N-Nitrosopyrrolidine	1.19	1.19	4.128E-03	4.128E-03
Hexachloroethane	0.494	0.494	1.714E-03	1.714E-03
Nitrobenzene	0.891	0.891	3.091E-03	3.091E-03
N-Nitrosopiperidine	0.729	0.729	2.529E-03	2.529E-03
Isophorone	0.214	0.214	7.424E-04	7.424E-04
2,4-Dimethylphenol	0.337	0.337	1.169E-03	1.169E-03
2-Nitrophenol	0.536	0.536	1.859E-03	1.859E-03
bis(2-Chloroethoxy)methane	0.391	0.391	1.356E-03	1.356E-03
Benzoic acid	36.6	36.6	1.270E-01	1.270E-01
2,4-Dichlorophenol	0.49	0.49	1.700E-03	1.700E-03
1,2,4-Trichlorobenzene	0.353	0.353	1.225E-03	1.225E-03
Naphthalene	0.447	0.447	1.551E-03	1.551E-03
p-Chloroaniline	0.322	0.322	1.117E-03	1.117E-03
2,6-Dichlorophenol	0.344	0.344	1.193E-03	1.193E-03
Hexachloropropene	0.565	0.565	1.960E-03	1.960E-03
Hexachlorobutadiene	0.51	0.51	1.769E-03	1.769E-03
Dimethylphenethylamine	20.4	20.4	7.077E-02	7.077E-02

TABLE F-3. AEC - RUN NO. 1 IR TEST (1 APRIL 1998)

Compounds below the DLs are listed as nondetected (ND)

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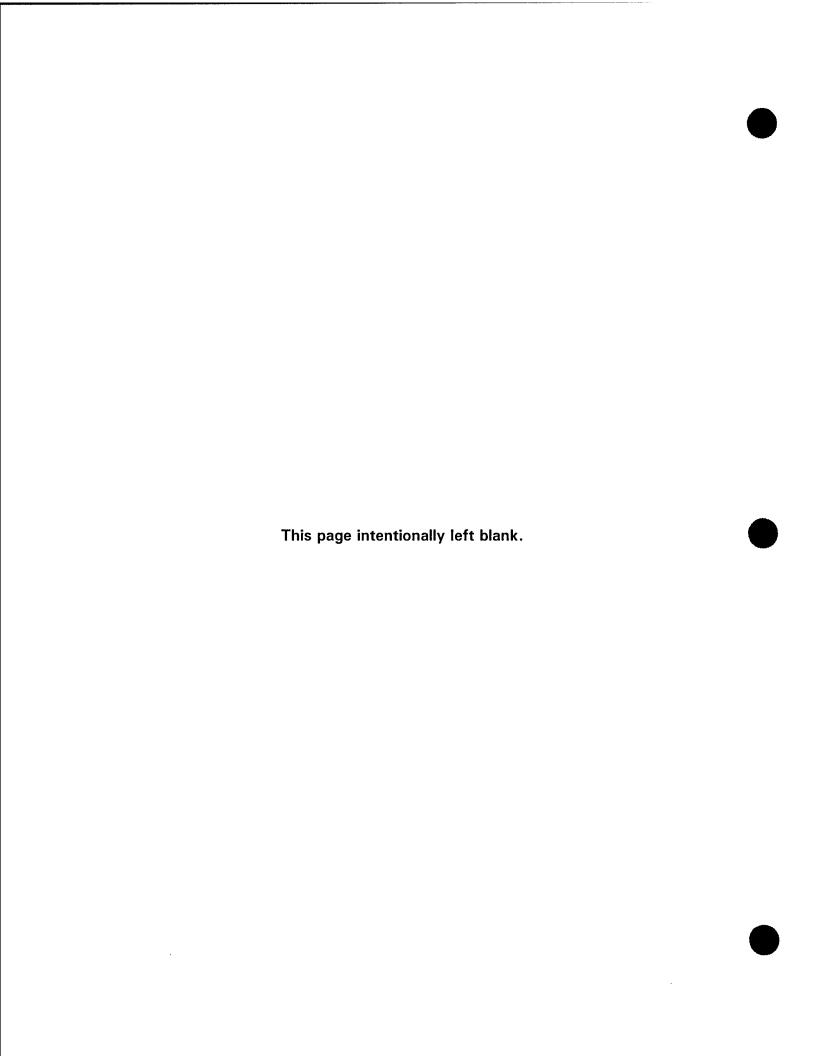
TABLE F-3. AEC - RUN NO. 1 IR TEST (1 APRIL 1998)

Particulate/Vapor-phase SVOCs Analysis of the Air Sample - Method 8270B; samples collected on filter and resin trap

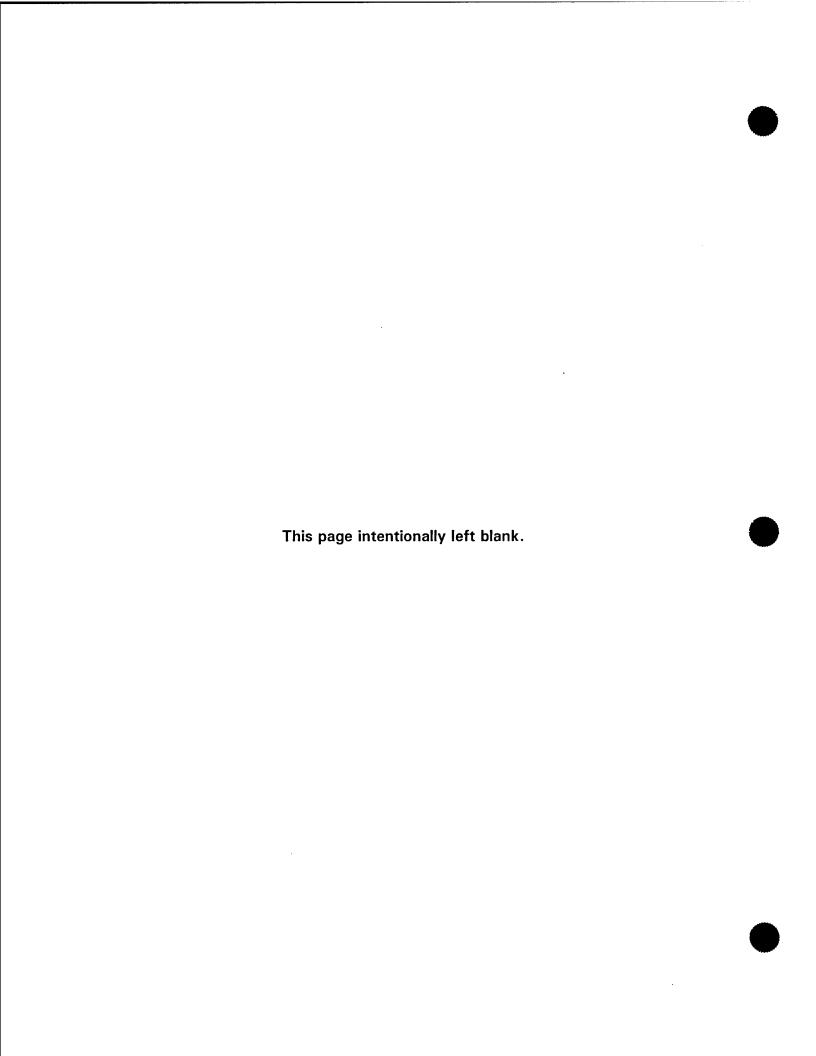
Compounds below the DLs are listed as nondetected (ND)

Analyte	1 100 A 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Run 1 Train B -Detection Limit, ug	Average Maximum Detection Limit - Concentration, mg/m³	Average Minimum Detection Limit - Concentration, mg/m³
Pentachlorophenol	28.8	28.8	9.991E-02	9.991E-02
Pentachloronitrobenzene	1.34	1.34	4.648E-03	4.648E-03
Phenanthrene	0.61	0.61	2.116E-03	2.116E-03
Anthracene	0.366	0.366	1.270E-03	1.270E-03
Carbazole	0.245	0.245	8.499E-04	8.499E-04
Di-n-butylphthalate	0.17	0.17	5.897E-04	5.897E-04
4-Nitroquinoline-1-oxide	22.5	22.5	7.805E-02	7.805E-02
Methapyrilene	20.7	20.7	7.181E-02	7.181E-02
Fluoranthene	0.361	0.361	1.252E-03	1.252E-03
Benzidine	13.4	13.4	4.648E-02	4.648E-02
Pyrene	0.496	0.496	1.721E-03	1.721E-03
p-Dimethylaminoazobenzene	0.368	0.368	1.277E-03	1.277E-03
Chlorobenzilate	0.512	0.512	1.776E-03	1.776E-03
Kepone	18.8	18.8	6.522E-02	6.522E-02
Butylbenzylphthalate	0.205	0.205	7.111E-04	7.111E-04
3,3'-Dimethylbenzidine	1.98	1.98	6.869E-03	6.869E-03
2-Acetylaminofluorene	0.312	0.312	1.082E-03	1.082E-03
bis(2-Ethylhexyl)phthalate	1.22	1.22	4.232E-03	4.232E-03
3,3'-Dichlorobenzidine	0.335	0.335	1.162E-03	1.162E-03
Benz(a)anthracene	0.452	0.452	1.568E-03	1.568E-03
Chrysene	0.488	0.488	1.693E-03	1.693E-03
Di-n-octylphthalate	0.312	0.312	1.082E-03	1.082E-03
7,12-Dimethylbenz(a)anthracene	0.461	0.461	1.599E-03	1.599E-03
Benzo(b)fluoranthene (a)	0.278	0.278	9.644E-04	9.644E-04
Benzo(k)fluoranthene (a)	0.581	0.581	2.015E-03	2.015E-03
Benz(a)pyrene	0.329	0.329	1.141E-03	1.141E-03
3-Methylcholanthrene	1.17	1.17	4.059E-03	4.059E-03
Indeno(1,2,3-cd)pyrene	0.219	0.219	7.597E-04	7.597E-04
Dibenz(a,h)anthracene	0.246	0.246	8.534E-04	8.534E-04
Benzo(g,h,i)perylene	0.236	0.236	8.187E-04	8.187E-04

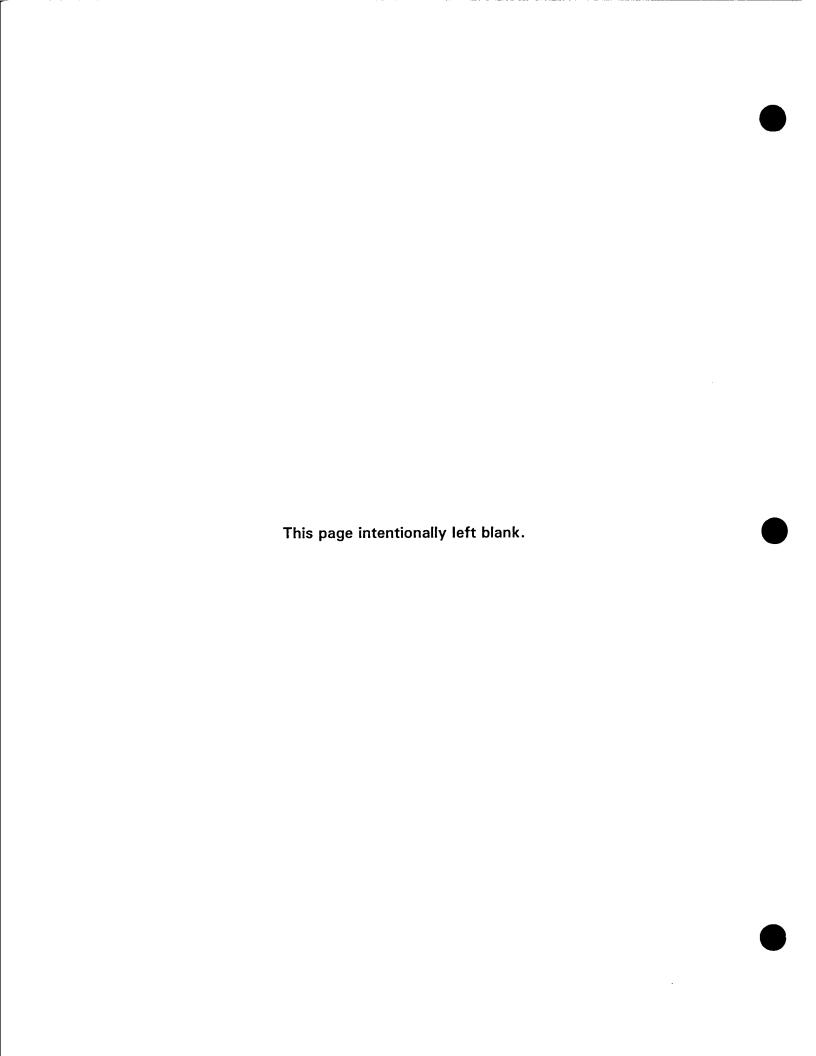
a Resulting value based on average of benzo(b) and benzo(k)fluoranthene isomers.



APPENDIX II-G. HCI/CI2 DATA RESULTS



SIMULATOR BOOBY TRAP FLASH M117



HCI/Cl₂ Analysis of the Air Sample - 40 CFR 60 Appendix A Method 9057; sample collected TABLE G-1. AEC - RUN NO. 1 BT TEST (28 MARCH 1998) in 40 CFR 60 Appendix A Method 26 impinger trains Analyzed by: Radian International LLC

Average HCI/CI ₂ Concentration, mg/m³ (a)	CN		6700	0.0
Cl' Concentration, mg/m³	ND	ND	0.016	0.067
Detected Amount, mg	QN	ΩN	0.012	0.051
Detection Limit, ug	44.8	41	1.24	1.4
Amount Detected, ug	12.05	20.1	11.8	50.75
Sample	Run 1 Train A H₂SO₄	Run 1 Train B H ₂ SO ₄	Run 1 Train A NaOH	Run 1 Train B NaOH
Sample ID Number	DPG-481 (b)	DPG-483 (b)	DPG-482 (b)	DPG-484 (b)

The HCI/Cl₂ concentration reflects the estimated concentration of HCl based on the ratio of the molecular weight of HCl to the molecular weight of Cl; the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H₂SO₄ estimate the HCl concentration.

The amount shown is the average of the measured and duplicate values.

Maximum (H_2SO_4) DL = 44.800 Minimum (H_2SO_4) DL = 0.588 Maximum (NaOH) DL = 1.400 Minimum (NaOH) DL = 0.147

TABLE G-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

HCI/Cl₂ Analysis of the Air Sample - 40 CFR 60 Appendix A Method 9057; sample collected

in 40 CFR 60 Appendix A Method 26 impinger trains

Analyzed by: Radian International LLC

Sample ID		Amount Detected,	Detection	Amount	Cl Concentration,	HCI/CI ₂ Concentration,
Number	Sample	В'n	Limit, ug	Detected, mg	mg/mຶ	mg/m゚(a)
DPG-436	Background 0.1 N H ₂ SO ₄	19.15	52.4	Q	QN	ΩN
DPG-437	Background 0.1N NaOH	2	1.46	0.002	0.003	0.003
DPG-907 (b)	Reagent Blank 0.1 N H ₂ SO₄	22.3	289	QN	NA	NA
DPG-908	Reagent Blank 0.1N NaOH	0	2.79	QN	NA	NA
DPG-909 (b)	Reagent Blank Rinsate Distilled H ₂ O	2.425	5.4	ΩN	NA	NA
DPG-905/946 (b)	DPG-905/946 (b) Field Blank 0.1 N H ₂ SO₄	75.9	55.1	0.076	ΝΑ	NA
DPG-906/947 (b)	Field Blank 0.1N NaOH	6.82	1.23	0.007	NA	NA

The amount shown is the average of the measured and duplicate values.

The HCI/Cl₂ concentration reflects the estimated concentration of HCl based on the ratio of the molecular weight of HCl to the molecular weight of Cl;

the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H₂SO₄ estimate the HCl concentration.

HCI/Cl₂ Analysis of the Air Sample - 40 CFR 60 Appendix A Method 9057; sample collected **TABLE G-3. AEC - RUN NO. 1 BT TEST (28 MARCH 1998)**

in 40 CFR 60 Appendix A Method 26 impinger trains Analyzed by: Radian International LLC

HCI/Cl ₂ Detection Limit Concentration, mg/m³ (a)	0.062	0.001	0.002	0.000
Cl Detection Limit Concentration mg/m³	090'0	0.001	0.002	000'0
Detected Amount, mg	0.045	0.001	0.001	000'0
Detection Limit, ug	44.800	0.588	1.400	0.147
Sample	H₂SO₄	H₂SO₄	NaOH	NaOH
Sample ID Number	Maximum DL	Minimum DL	Maximum DL	Minimum DL

molecular weight of CI-; the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H₂SO₄ estimate the The HCI/Cl₂ concentration reflects the estimated concentration of HCI based on the ratio of the molecular weight of HCI to the HCI concentration.

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR HCI/CI2 TRAINS

Run No.

BT-Background

Train No.

Barometric Pressure =

ŭ

644 25.35 mmHg in. Hg

DGMCF =

0.9935

32.82

Dry Gas Meter Dry Gas Meter Reading (ft³) ΔH (in H₂O) Temperature (°C) 0 5.36 1.8 16 16 10.71 1.8 16.29 1.8 16 21.73 1.8 . 16 27.77 1.8 16

1.8

1.80

Volume = 32.82

Average =

16.0

16

Volume corrected to standard conditions = $\begin{array}{c} 28.16 \text{ std ft}^3 \\ \text{Ts} = \\ \text{Ps} = \\ \end{array}$

Tmeter = $521 \, ^{\circ}R$ Pmeter = $25.49 \, \text{in. Hg}$

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR HCI/CI2 TRAINS

Run No. BT-2 Train No. A

Barometric Pressure = 637 mmHg 25.08 in. Hg

DGMCF = 1.0046

Dry Gas Meter Dry Gas Meter Temperature (°C) Reading (ft³) ΔH (in H_2O) 0 5.4 1.4 42 10.8 1.4 44 16.2 1.4 45 21.7 1.4 47 27.3 1.4 48 32.92 1.4 49 Volume = 32.92 Average = 1.40 45.8

Volume corrected to standard conditions =	25.58 std ft ³	
Ts =	528 °R	
Ps =	29.92 in. Hg	
Tmeter =	575 °R	
Pmeter =	25.18 in. Hg	

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR HCI/CI_2 TRAINS

Run No.

BT-2

Train No.

В

Barometric Pressure =

637

mmHg in. Hg

DGMCF =

25.08 0.9935

	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
_	276		
	281.1	1.8	6
	286.2	1.8	6
	291.4	1.8	7
	296.6	1.8	7
		1.8	8
	306.52	1.8	8
Volume =	30.52		
Average =		1.80	7.0

Volume corrected to standard conditions =	26.73 std ft ³
Ts =	528 °R
Ps =	29.92 in. Hg
Tmeter =	505 °R
Pmeter =	25.21 in. Hg

SIMULATOR FLASH ARTILLERY M110

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TABLE G-1. AEC - RUN NO. 1-2 FA TEST (28 MARCH 1998)

HCI/Cl₂ Analysis of the Air Sample - 40 CFR 60 Appendix A Method 9057; sample collected in 40 CFR 60 Appendix A Method 26 impinger trains

Analyzed by: Radian International LLC

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Average HCI/Cl ₂ Concentration, mg/m³(a)	0.075	6.0.0	3000	0.023	60.0	50.0	0000	0.020
Cl Concentration,	0.064	980'0	0.023	0.028	ΩN	0:030	0.018	0.022
Detected Amount, mg	0.053	0.058	0.019	0.019	QN	0.020	0.015	0.015
Detection Limit, ug	47.5	41	1.49	1.12	48.6	5.89	1.24	1.09
≟ Amount Detected,	53.25	57.7	19.4	18.5	42.75	19.9	14.95	14.5
Sample	Run 1 Train A H₂SO₄	Run 1 Train B H₂SO₄	Run 1 Train A NaOH	Run 1 Train B NaOH	Run 2 Train A H₂SO₄	Run 2 Train B H₂SO₄	Run 2 Train A NaOH	Run 2 Train B NaOH
Sample ID Number	DPG-331 (b)	DPG-333 (b)	DPG-332 (b)	DPG-334 (b)	DPG-381 (b)	DPG-383 (b)	DPG-382	DPG-384

The HCI/Cl₂ concentration reflects the estimated concentration of HCl based on the ratio of the molecular weight of HCl to the molecular weight of Cl; the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H2SO4 estimate the HCI concentration.

The amount shown is the average of the measured and duplicate values.

48.600 Maximum (H₂SO₄) DL =

5.890 Minimum (H₂SO₄) DL =

1.490 Maximum (NaOH) DL = Minimum (NaOH) DL =

TABLE G-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

HCI/Cl₂ Analysis of the Air Sample - 40 CFR 60 Appendix A Method 9057; sample collected in 40 CFR 60 Appendix A Method 26 impinger trains

Analyzed by: Radian International LLC

Clolumo		•			noitesting and 10	HCVC1 ₂
Number	Sample	Aillouilt Detecteu, ug	Limit, ug	Detected, mg	mg/m³	mg/m³ (a)
DPG-346 (b)	Background 0.1 N H ₂ SO ₄	10.33	47	ΩN	QN	QN
DPG-347 (b)	Background 0.1N NaOH	2.62	1.24	0.003	0.003	0.003
DPG-907 (b)	Reagent Blank 0.1 N H ₂ SO₄	22.3	289	Q	NA	AN
DPG-908	Reagent Blank 0.1N NaOH	0	2.79	QN	AN	NA
DPG-909 (b)	Reagent Blank Rinsate Distilled H ₂ O	2.425	5.4	QN	ΑN	AN
DPG-905/946 (b)	Field Blank 0.1 N H ₂ SO₄	75.9	55.1	0.076	ΑN	AN
DPG-906/947 (b)	DPG-906/947 (b) Field Blank 0.1N NaOH	6.82	1.23	0.007	ΝΑ	NA

The HCI/Cl₂ concentration reflects the estimated concentration of HCl based on the ratio of the molecular weight of HCl to the molecular weight of Cl²; the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H₂SO₄ estimate the HCl concentration.

The amount shown is the average of the measured and duplicate values.

HCI/Cl₂ Analysis of the Air Sample - 40 CFR 60 Appendix A Method 9057; sample collected TABLE G-3. AEC - RUN NO. 1-2 FA TEST (28 MARCH 1998) in 40 CFR 60 Appendix A Method 26 impinger trains Analyzed by: Radian International LLC

L H ₂ SO ₄ 48.600 0.049 H ₂ SO ₄ 5.890 0.006 NaOH 1.490 0.001	Sample ID Number	Sample	Detection Limit, ug	Detected Amount, mg	Cl ⁻ Detection Limit Concentration, mg/m ³	HCI/CI ₂ Detection Limit Concentration, mg/m³ (a)
H ₂ SO ₄ 5.890 0.006 1.490 0.001	Maximum DL	H₂SO₄	48.600	0.049	0.065	0.067
NaOH 1.490 0.001	Minimum DL	H₂SO₄	5.890	900.0	0.008	0.008
	Maximum DL	NaOH	1.490	0.001	0.002	0.002
Minimum DL NaOH 1.090 0.001 0.00	Minimum DL	NaOH	1.090	0.001	0.001	0.001

molecular weight of CI-; the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H₂SO₄ estimate the The HCI/Cl₂ concentration reflects the estimated concentration of HCl based on the ratio of the molecular weight of HCl to the HCI concentration.

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR HCI/CI₂ TRAINS

Run No.

FA-Background

Train No.

Barometric Pressure =

637

mmHg

DGMCF =

25.08

in. Hg

0.9935

_	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
	0		
	5.6	1.8	9
	11.2	1.8	9
	16.6	1.8	9
	21.9	1.8	9
	27.4	1.8	9
	32.93	1.8	9
Volume =	32.93		
Average =		1.80	9.0

Volume corrected to standard conditions =	28.64 std ft ³
Ts =	528 °R
Ps =	29.92 in. Hg
Tmeter =	508 °R
Pmeter =	25.21 in. Hg

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR HCI/Cl_2 TRAINS

Run No.

FA-1

Train No.

Α

Barometric Pressure =

635 25.00

0.9935

mmHg

DGMCF =

in. Hg

_	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
=	. 0		
	5.68	1.8	11
	11.3	1.8	11
	17	1.8	11
	22.7	1.8	11
	28.4	1.8	11
	34.2	1.8	12
Volume =	34.2		
Average =		1.80	11.2

Volume corrected to standard conditions =	29.43 std ft ³
Ts =	528 °R
Ps =	29.92 in. Hg
Tmeter =	512 °R
Pmeter =	25.13 in. Hg

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR HCI/CI2 TRAINS

 Run No.
 FA-1

 Train No.
 B

 Barometric Pressure =
 635

 25.00

DGMCF = 1.0046

_	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
=			
	310.37		
	315.5	1.2	48
	320.8	1.2	50
	326	1.2	51
	331.1	1.2	51
	336.1	1.2	51
	341.37	1.2	52
Volume = _	31		
verage =		1.20	50.5

mmHg

in. Hg

Volume corrected to standard conditions =	23.65 std ft ³	
Ts =	528 °R	
Ps =	29.92 in. Hg	
Tmeter =	583 °R	
Pmeter =	25.09 in. Ha	

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR HCI/CI2 TRAINS

Run No.

FA-2

Train No.

Α

Barometric Pressure =

635 25.00 mmHg in. Hg

DGMCF = 0.9935

	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
	0		
	5.5	1.8	9
	11.1	1.8	9
	16.1	1.8	9
	22.1	1.8	10
	27.6	1.8	10
	33.37	1.8	10
Volume = _	33.37		
Average =		1.80	9.5

Volume corrected to standard conditions =	28.88 std ft ³
Ts =	528 °R
Ps =	29.92 in. Hg
Tmeter =	509 °R
Pmeter =	25.13 in. Hg

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR $\mathrm{HCI/Cl_2}$ TRAINS

Run No. Train No. FA-2 В

Barometric Pressure =

635

mmHg

25.00

in. Hg

DGMCF =

1.0046

_	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
	347.2		
	352.4	1.2	47
	357.6	1.2	49
	362.6	1.2	50
	367.7	1.2	51
	372.8	1.2	52
	377.86	1.2	52
Volume =	30.66		
Average =		1.20	50.2

Volume corrected to standard conditions =	23.42 std ft ³
Ts =	528 °R
Ps =	29.92 in. Hg
Tmeter =	582 °R
Pmeter =	25.09 in. Hg

SIMULATOR HAND GRENADE

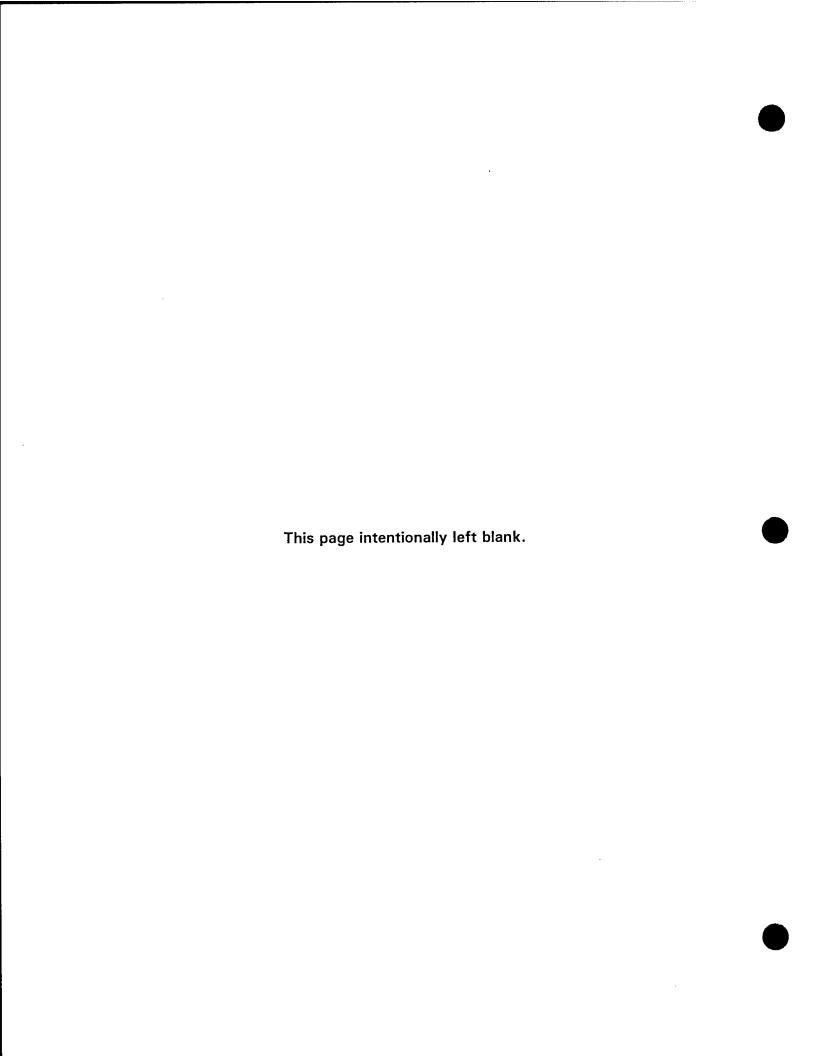


TABLE G-1. AEC - RUN NO. 1-2 HG TEST (30 MARCH 1998)

HCI/Cl₂ Analysis of the Air Sample - 40 CFR 60 Appendix A Method 9057; sample collected

in 40 CFR 60 Appendix A Method 26 impinger trains Analyzed by: Radian International LLC

Average HCI/Cl ₂ Concentration, mg/m³ (a)	CZ		1 0 008		2		3	
Cl Concentration mg/m ³	QN	QN	0.004	0.011	QN	QN	900'0	0.024
Detected Amount, mg	QN	QN	0.003	0.008	QN	QN	0.005	0.016
Detection Limit, ug	42.1	43.7	1.21	1	9:55	43.7	1.09	1.12
Amount Detected,	13.1	16.35	3.34	7.59	41	13.3	4.77	15.75
Sample	Run 1 Train A H ₂ SO ₄	Run 1 Train B H ₂ SO ₄	Run 1 Train A NaOH	Run 1 Train B NaOH	Run 2 Train A H₂SO₄	Run 2 Train B H ₂ SO ₄	Run 2 Train A NaOH	Run 2 Train B NaOH
Sample ID Number	DPG-231 (b)	DPG-233 (b)	DPG-232 (b)	DPG-234 (b)	DPG-281 (b)	DPG-283 (b)	DPG-282 (b)	DPG-284 (b)

__

The HCI/Cl₂ concentration reflects the estimated concentration of HCI based on the ratio of the molecular weight of HCl to the molecular weight of Cl; the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H₂SO₄ estimate the HCl concentration.

The amount shown is the average of the measured and duplicate values.

Maximum (H_2SO_4) DL = 55.600 Minimum (H_2SO_4) DL = 42.100 Maximum (NaOH) DL = 1.210 Minimum (NaOH) DL = 1.000

TABLE G-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

HCI/Cl₂ Analysis of the Air Sample - 40 CFR 60 Appendix A Method 9057; sample collected

in 40 CFR 60 Appendix A Method 26 impinger trains

Analyzed by: Radian International LLC

Sample ID		Amount Detected	Detection	Amount	Cl. Concentration.	HCI/CI ₂ Concentration.
Number	Sample	ng	Limit, ug	Detected, mg	mg/m³	mg/m³ (a)
DPG-246 (b)	Background 0.1 N H ₂ SO ₄	44.65	46.4	QN	QN	QN
DPG-247 (b)	Background 0.1N NaOH	3.275	1.12	0.003	0.004	0.004
DPG-907 (b)	Reagent Blank 0.1 N H₂SO₄	22.3	289	Q	ΑN	NA
DPG-908	Reagent Blank 0.1N NaOH	0	2.79	QN	AN	NA
DPG-909 (b)	Reagent Blank Rinsate Distilled H ₂ O	2.425	5.4	QN	AN	NA
DPG-905/946 (b)	Field Blank 0.1 N H ₂ SO ₄	75.9	55.1	0.076	Ϋ́	NA
DPG-906/947 (b)	Field Blank 0.1N NaOH	6.82	1.23	0.007	NA	NA

the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H₂SO₄ estimate the HCl concentration.

The HCI/Cl₂ concentration reflects the estimated concentration of HCI based on the ratio of the molecular weight of HCI to the molecular weight of CI;

The amount shown is the average of the measured and duplicate values.

HCI/Cl₂ Analysis of the Air Sample - 40 CFR 60 Appendix A Method 9057; sample collected TABLE G-3. AEC - RUN NO. 1-2 HG TEST (30 MARCH 1998) in 40 CFR 60 Appendix A Method 26 impinger trains Analyzed by: Radian International LLC

Sample ID Number	Sample	Detection Limit, ug	Detected Amount, mg	CI ⁻ Detection Limit Concentration, mg/m³	HCI/Cl ₂ Detection Limit Concentration, mg/m³ (a)
Maximum DL	H ₂ SO ₄	55.600	0.056	0.073	0.075
Minimum DL	[₹] SO ⁴	42.100	0.042	0.055	0.057
Maximum DL	NaOH	1.210	0.001	0.002	0.002
Minimum DL	NaOH	1.000	0.001	0.001	0.001

molecular weight of CI-; the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H₂SO₄ estimate the The HCI/Cl₂ concentration reflects the estimated concentration of HCI based on the ratio of the molecular weight of HCI to the HCI concentration.

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR HCI/Cl_2 TRAINS

Run No.

HG-Background

Train No.

Barometric Pressure =

646

mmHg

25.43

in. Hg

DGMCF = 0.9935

	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
	0		
	5.4	1.8	4
	10.9	1.8	4
	16.5	1.8	5
	22.2	1.8	5
	27.2	1.8	5
	33.3	1.8	5
Volume =	33.3		
Average =		1.80	4.7

Volume corrected to standard conditions =	29.83 std ft
Ts =	528 °R
Ps =	29.92 in. Hg

500 °R Tmeter = 25.56 in. Hg Pmeter =

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR $\mbox{HCI/CI}_2$ TRAINS

Run No.

HG-1

Train No.

Α

Barometric Pressure =

646 25.43

mmHg in. Hg

DGMCF =

0.9935

	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
			-//
	0		
	5.6	1.8	5
	11.2	1.8	5
	16.8	1.8	6
	23.3	1.8	6
	27.9	1.8	6 .
	34.06	1.8	7
Volume =	34.06		
verage =		1.80	5.8

Volume corrected to standard conditions =	30.38 std ft ³
Ts =	528 °R
Ps =	29.92 in. Hg
Tmeter =	503 °R
Pmeter =	25.56 in. Hg

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR HCI/CI_2 TRAINS

Run No.

HG-1

Train No.

В

Barometric Pressure =

646

mmHg in. Hg

DGMCF =

1.0046

25.43

_	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
-	270.6		
	379.6 384.6	1.2	37
	389.5	1.2	39
	394.4	1.2	41
	399.4	1.2	41
	404.41	1.2	41
	409.25	1.2	42
Volume =	29.65		
Average =		1.20	40.2

Volume corrected to standard conditions =	23.77 std ft³
Ts =	528 °R
Ps =	29.92 in. Hg
Tmeter =	564 °R
Pmeter =	25.52 in. Hg

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR HCI/CI₂ TRAINS

Run No.

HG-2

Train No.

Α

Barometric Pressure =

646

mmHg

25.43

in. Hg

DGMCF = 0.9935

_	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
-	0		
	5.05	1.8	7
	10.9	1.8	7
	16.8	1.8	7
	22.2	1.8	7
	27.6	1.8	8
	33.65	1.8	9
Volume =	33.65		
Average =		1.80	7.5

Volume corrected to standard conditions =	29.84 std ft ³
Ts =	528 °R
Ps =	29.92 in. Hg
Tmeter =	506 °R
Pmeter =	25.56 in. Hg

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR HCI/CI_2 TRAINS

Run No. HG-2 Train No. B Pressure = 646

Barometric Pressure = 646 mmHg 25.43 in. Hg

DGMCF = 1.0046

	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
=	400.7		
	409.7		
	414.7	1.2	42
	419.7	1.2	44
	424.7	1.2	45
	429.6	1.2	46
	434.5	1.2	47
	439.67	1.2	47
Volume =	29.97		
Average =		1.20	45.2

Volume corrected to standard conditions =	23.65 std ft ³
Ts =	528 °R
Ps =	29.92 in. Hg
Tmeter =	573 °R
Pmeter =	25.52 in. Hg

SIMULATOR GROUND BURST

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TABLE G-1. AEC - RUN NO. 1-2 GB TEST (30 MARCH 1998)

HCI/Cl₂ Analysis of the Air Sample - 40 CFR 60 Appendix A Method 9057; sample collected

in 40 CFR 60 Appendix A Method 26 impinger trains

Analyzed by: Radian International LLC

					<u> </u>		T-	
Average HCI/Cl ₂ Concentration, mg/m³ 'a)	990 0	0.000	790.0	0.007	0000	0.000	090.0	0.000
Cl Concentration,	0.053	0.076	0.071	0.063	0.059	0.096	0.031	0.088
Detected Amount, mg	0.045	0.048	090'0	0.040	0.049	090'0	0.026	950.0
Detection Limit, ug	42.7	41.6	1.12	1.21	40	48.6	1.24	1.21
Amount Detected,	44.95	48.25	59.65	40.35	49.2	60.45	25.95	55.35
Sample	Run 1 Train A H₂SO₄	Run 1 Train B H₂SO₄	Run 1 Train A NaOH	Run 1 Train B NaOH	Run 2 Train A H₂SO₄	Run 2 Train B H ₂ SO ₄	Run 2 Train A NaOH	Run 2 Train B NaOH
Sample ID Number	DPG-131 (b)	DPG-133 (b)	DPG-132 (b)	DPG-134 (b)	DPG-181 (b)	DPG-183 (b)	DPG-182 (b)	DPG-184 (b)

The HCI/Cl₂ concentration reflects the estimated concentration of HCI based on the ratio of the molecular weight of HCI to the molecular weight of Cl²; the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H₂SO₄ estimate the HCI concentration.

The amount shown is the average of the measured and duplicate values.

48.600	40.000	1.240	1.120
Maximum (H_2SO_4) DL =	Minimum (H_2SO_4) DL =	Maximum (NaOH) DL =	Minimum (NaOH) DL =

TABLE G-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

HCI/Cl₂ Analysis of the Air Sample - 40 CFR 60 Appendix A Method 9057; sample collected

in 40 CFR 60 Appendix A Method 26 impinger trains

Analyzed by: Radian International LLC

Sample ID		Amount Detected,	Detection	Amount	Cl Concentration,	HCI/Cl ₂ Concentration,
Numper	Sample	В'n	Limit, ug	Detected, mg	mg/m	mg/m² (a)
DPG-246 (b)	Background 0.1 N H ₂ SO ₄	44.65	46.4	QN	Q	QN
DPG-247 (b)	Background 0.1N NaOH	3.275	1.12	0.003	0.004	0.004
DPG-907 (b)	Reagent Blank 0.1 N H ₂ SO ₄	22.3	289	QN	NA	NA
DPG-908	Reagent Blank 0.1N NaOH	0	2.79	QN	NA	NA
DPG-909 (b)	Reagent Blank Rinsate Distilled H ₂ O	2.425	5.4	QN	NA	NA
DPG-905/946 (b)	Field Blank 0.1 N H ₂ SO₄	75.9	55.1	0.076	NA	NA
DPG-906/947 (b)	Field Blank 0.1N NaOH	6.82	1.23	0.007	NA	NA

the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H₂SO₄ estimate the HCl concentration.

The HCI/Cl₂ concentration reflects the estimated concentration of HCl based on the ratio of the molecular weight of HCl to the molecular weight of Cl;

The amount shown is the average of the measured and duplicate values.

HCI/Cl₂ Analysis of the Air Sample - 40 CFR 60 Appendix A Method 9057; sample collected TABLE G-3. AEC - RUN NO. 1-2 GB TEST (30 MARCH 1998) in 40 CFR 60 Appendix A Method 26 impinger trains Analyzed by: Radian International LLC

Sample ID Number	Sample	Detection Limit, ug	Detected Amount, mg	Cl ⁻ Detection Limit Concentration, mg/m³	HCI/Cl ₂ Detection Limit Concentration, mg/m³ (a)
Maximum DL	H₂SO₄	48.600	0.049	0.066	0.068
Minimum DL	H ₂ SO₄	40.000	0.040	0.055	0.056
Maximum DL	NaOH	1.240	0.001	0.002	0.002
Minimum DL	NaOH	1.120	0.001	0.002	0.002

molecular weight of Cl-; the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H₂SO₄ estimate the The HCI/Cl₂ concentration reflects the estimated concentration of HCI based on the ratio of the molecular weight of HCI to the HCI concentration.

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR HCI/CI2 TRAINS

 Run No.
 GB-1

 Train No.
 A

 Barometric Pressure =
 646
 mmHg

 25.43
 in. Hg

 DGMCF =
 0.9935

_	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
-	0		
	5.5	1.8	10
	11.1	1.8	10
	16.8	1.8	10
	22.4	1.8	10
	28	1.8	11
	33.82	1.8	11
Volume =	33.82		
Average =		1.80	10.3

Volume corrected to standard conditions =	29.69 std ft ³	
Ts =	528 °R	
Ps =	29.92 in. Hg	
Tmeter =	511 °R	
Pmeter =	25.56 in. Ha	

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR HCI/CI_2 TRAINS

Run No. GB-1 Train No. B

Barometric Pressure = 646 mmHg 25.43 in. Hg

DGMCF = 1.0046

<u></u>	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
_	443.61		
	448.4	1.2	48
	453.3	1.2	50
	458.2	1.2	51
	463	1.2	52
	467.8	1.2	53
	472.75	1.2	54
Volume =	29.14		
Average =		1.20	51.3

Volume corrected to standard conditions =	22.56 std ft ³
Ts =	528 °R
Ps =	29.92 in. Hg
Tmeter =	584 °R
Pmeter =	25.52 in. Hg

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR $\mathrm{HCl/Cl_2}$ TRAINS

Run No. GB-2 Train No. A Pressure = 647

Barometric Pressure = 647 mmHg 25.47 in. Hg

DGMCF = 0.9935

	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
_	0		
	5.6	1.8	12
	11.1	1.8	13
	16.7	1.8	13
	22.3	1.8	13
	27.8	1.8	13
	33.56	1.8	14
Volume =	33.56		
Average =		1.80	13.0

Volume corrected to standard conditions =	29.23 std ft ³	
Ts =	528 °R	
Ps =	29.92 in. Hg	
Tmeter =	515 °R	
Pmeter =	25.60 in. Hg	

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR HCI/CI₂ TRAINS

Run No.

GB-2

Train No.

В

Barometric Pressure =

647

mmHg

25.47 1.0046 in. Hg

DGMCF =

_	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
_	474.55		**************************************
	479.5	1.2	59
	484.3	1.2	60
	489.2	1.2	60
	494.1	1.2	60
	498.9	1.2	61
	503.9	1.2	62
Volume =	29.35		
Average =		1.20	60.3

Volume corrected to standard conditions =	22.14 std ft ³
Ts =	528 °R
Ps =	29.92 in. Hg
Tmeter =	601 °R
Pmeter =	25.56 in Ha

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GREEN STAR CLUSTER

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TABLE G-1. AEC - RUN NO. 1 GS TEST (31 MARCH 1998)

in 40 CFR 60 Appendix A Method 26 impinger trains Analyzed by: Radian International LLC

Average HCI/Cl ₂ Concentration, mg/m³ (a)	0.00	0.07	0.047	7.0.0
Cl Concentration, mg/m³	0.072	QN	0.008	0.027
Detected Amount, mg	0.058	QN	900'0	0.018
Detection Limit, ug	51.3	55.6	1.27	1.27
Amount Detected,	58.45	49.9	6.305	17.9
Sample	Run 1 Train A H₂SO₄	Run 1 Train B H₂SO₄	Run 1 Train A NaOH	Run 1 Train B NaOH
Sample ID Number	DPG-831 (b)	DPG-833 (b)	DPG-832 (b)	DPG-834 (b)

The HCI/Cl₂ concentration reflects the estimated concentration of HCl based on the ratio of the molecular weight of HCl to the molecular weight of Cl; the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H₂SO₄ estimate the HCI concentration.

The amount shown is the average of the measured and duplicate values.

51.300 55.600 1.270 1.270 Maximum (H₂SO₄) DL = Maximum (NaOH) DL = Minimum (H₂SO₄) DL = Minimum (NaOH) DL =

TABLE G-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

in 40 CFR 60 Appendix A Method 26 impinger trains

Analyzed by: Radian International LLC

Sample ID Number	Sample	Amount Detected, ug	Detection Limit, ug	Amount Detected, mg	Cl [·] Concentration, mg/m³	HCI/Cl ₂ Concentration, mg/m³ (a)
DPG-746 (b)	Background 0.1 N H ₂ SO ₄	16.05	45.9	QN	QN	ON
DPG-747 (b)	Background 0.1N NaOH	11.7	1.12	0.012	0.014	0.014
DPG-907 (b)	Reagent Blank 0.1 N H ₂ SO ₄	22.3	289	QN	٧N	NA
DPG-908	Reagent Blank 0.1N NaOH	0	2.79	ND	NA	NA
DPG-909 (b)	Reagent Blank Rinsate Distilled H ₂ O	2.425	5.4	QN	NA	NA
DPG-905/946 (b)	Field Blank 0.1 N H ₂ SO ₄	75.9	55.1	0.076	NA	NA
DPG-906/947 (b)	Field Blank 0.1N NaOH	6.82	1.23	0.007	NA	NA

The HCI/Cl₂ concentration reflects the estimated concentration of HCI based on the ratio of the molecular weight of HCI to the molecular weight of CI; the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H₂SO₄ estimate the HCl concentration.

The amount shown is the average of the measured and duplicate values.

TABLE G-3. AEC - RUN NO. 1 GS TEST (31 MARCH 1998)

HCI/Cl₂ Analysis of the Air Sample - 40 CFR 60 Appendix A Method 9057; sample collected in 40 CFR 60 Appendix A Method 26 impinger trains Analyzed by: Radian International LLC

Sample ID Number	Sample	Detection Limit, mg/L	Detected Amount, mg	CI Detection Limit Concentration, mg/m³	HCL/Cl ₂ Detection Limit Concentration, mg/m³ (a)
Maximum DL	H₂SO₄	55.600	0.056	0.075	0.078
Minimum DL	H ₂ SO₄	51.300	0.051	0.070	0.072
Maximum DL	NaOH	1.270	0.001	0.002	0.005
Minimum DL	NaOH	1.270	0.001	0.002	0.002

molecular weight of CI-; the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H₂SO₄ estimate the The HCI/Cl₂ concentration reflects the estimated concentration of HCI based on the ratio of the molecular weight of HCI to the HCI concentration.

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR $\mbox{HCI/CI}_2$ TRAINS

 Run No.
 GS-1

 Train No.
 A

 Barometric Pressure =
 648 mmHg

 25.51 in. Hg

DGMCF = 0.9935

	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
_	0		
	5.5	1.8	13
	11.1	1.8	13
	16.7	1.8	14
	22.2	1.8	14
	27.6	1.8	15
	33.16	1.8	16
Volume =	33.16		
Average =		1.80	14.2

Volume corrected to standard conditions =	28.81 std ft ³
Ts =	528 °R
Ps =	29.92 in. Hg
Tmeter =	518 °R
Pmeter =	25.64 in. Hg

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR HCI/CI₂ TRAINS

Run No. Train No. GS-1

В

Barometric Pressure =

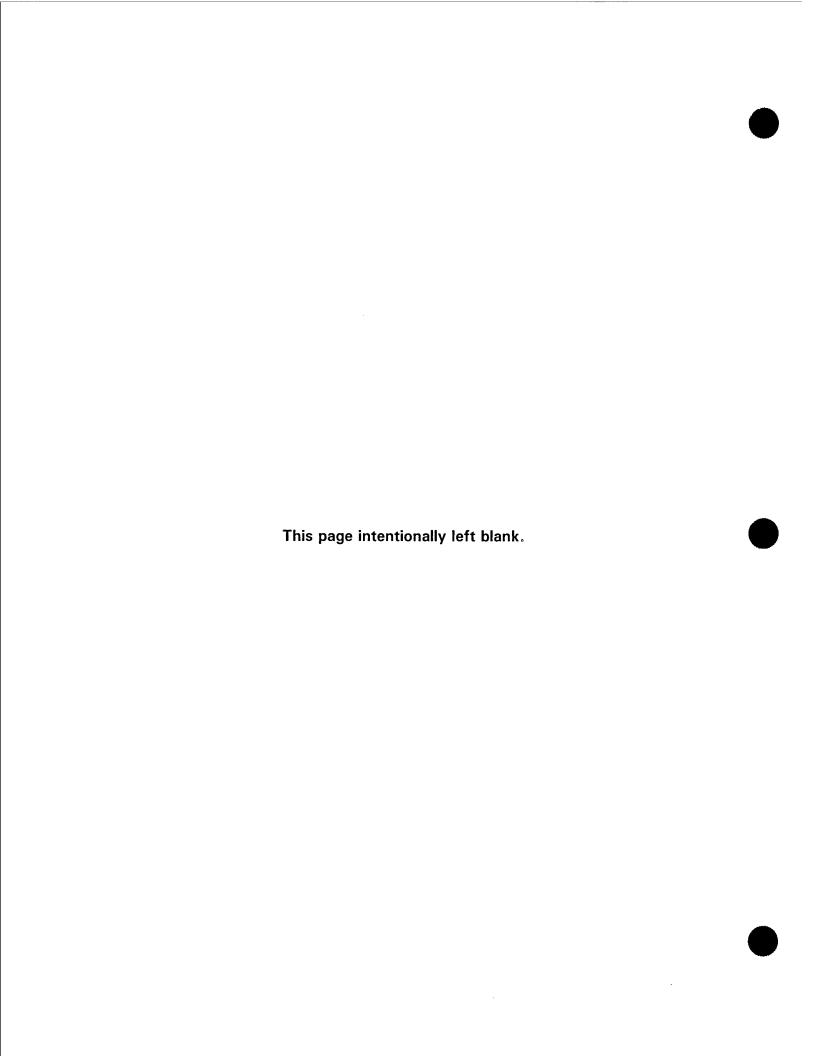
648 25.51 mmHg in. Hg

DGMCF =

1.0046

<u></u>	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
	487.5		
	492.3	1.2	57
	497.7	1.2	59
	503	1.2	61
	508	1.2	63
	513.1	1.2	64
	518.32	1.2	65
Volume =	30.82		
Average =		1.20	61.5

Volume corrected to standard conditions =	23.21 std ft ³
Ts =	528 °R
Ps =	29.92 in. Hg
Tmeter =	603 °R
Pmeter =	25.60 in. Hg



GREEN PARACHUTE SIGNAL FLARE

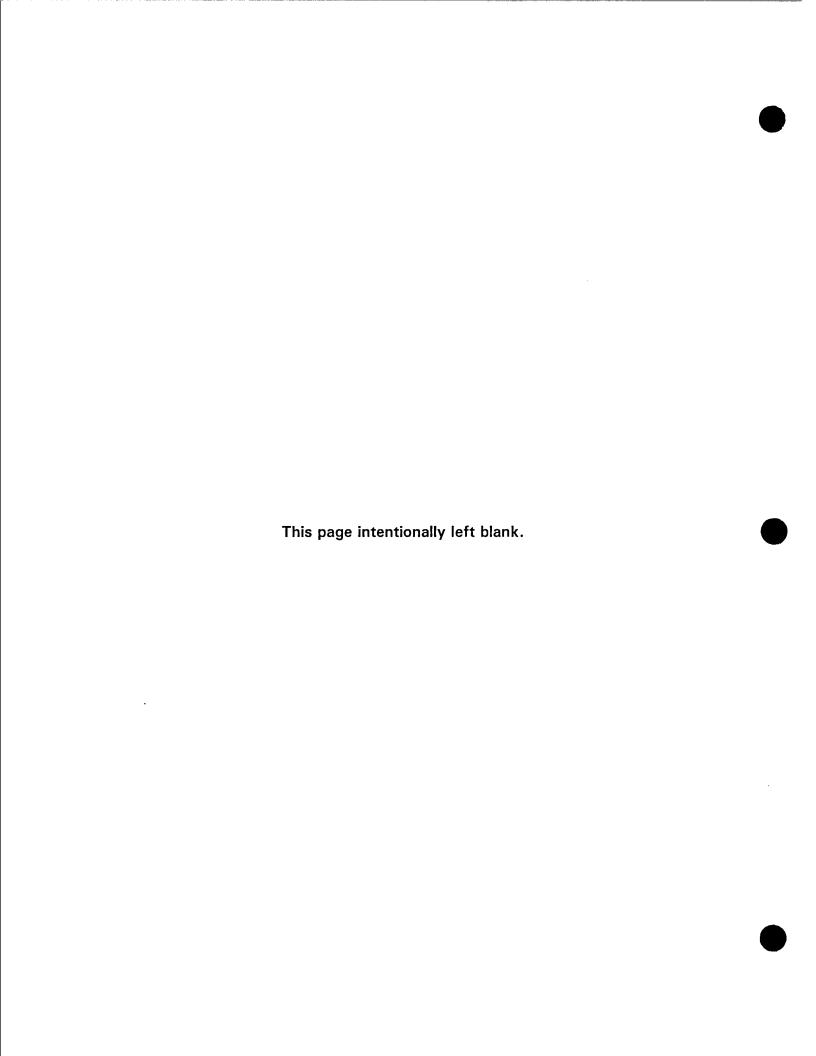


TABLE G-1. AEC - RUN NO. 1 GP TEST (31 MARCH 1998)

in 40 CFR 60 Appendix A Method 26 impinger trains Analyzed by: Radian International LLC

Average HCl/Cl ₂ Concentration, mg/m³ (a)	2	2	0.046	0.0
C Concentration,	QN	QN	0.012	0.019
Detected Amount, mg	Q.	QN	0.010	0.012
Detection Limit, ug	47	48.6	1.21	1.23
Amount Detected,	12.05	47.1	10.13	12.4
Sample	Run 1 Train A H ₂ SO ₄	Run 1 Train B H ₂ SO ₄	Run 1 Train A NaOH	Run 1 Train B NaOH
Sample ID Number	DPG-631 (b)	DPG-633 (b)	DPG-632 (b)	DPG-634 (b)

The HCI/Cl₂ concentration reflects the estimated concentration of HCI based on the ratio of the molecular weight of HCl to the molecular weight of Cl; the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H₂SO₄ estimate the HCI concentration.

The amount shown is the average of the measured and duplicate values.

47.000 48.600 1.230 Maximum (H₂SO₄) DL = Maximum (NaOH) DL = Minimum (H₂SO₄) DL = Minimum (NaOH) DL =

TABLE G-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

in 40 CFR 60 Appendix A Method 26 impinger trains

Analyzed by: Radian International LLC

Sample ID		Amount Detected,	Detection	Amount	Cl Concentration,	HCVCI ₂ Concentration,
Number	Sample	бn	Limit, ug	Detected, mg	mg/m³	mg/m³ (a)
DPG-746 (b)	Background 0.1 N H ₂ SO ₄	16.05	45.9	QN	QN	QN
DPG-747 (b)	Background 0.1N NaOH	11.7	1.12	0.012	0.014	0.014
DPG-907 (b)	Reagent Blank 0.1 N H ₂ SO ₄	22.3	289	QN	AN	NA
DPG-908	Reagent Blank 0.1N NaOH	0	2.79	QN	NA	NA
DPG-909 (b)	Reagent Blank Rinsate Distilled H ₂ O	2.425	5.4	QN	AN	NA
DPG-905/946 (b)	Field Blank 0.1 N H ₂ SO ₄	6.57	55.1	0.076	NA	NA
DPG-906/947 (b)	Field Blank 0.1N NaOH	6.82	1.23	0.007	NA	NA

b The amount shown is the average of the measured and duplicate values.

The HCI/Cl₂ concentration reflects the estimated concentration of HCI based on the ratio of the molecular weight of HCI to the molecular weight of CI;

the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H₂SO₄ estimate the HCI concentration.

TABLE G-3. AEC - RUN NO. 1 GP TEST (31 MARCH 1998)

HCI/Cl₂ Analysis of the Air Sample - 40 CFR 60 Appendix A Method 9057; sample collected in 40 CFR 60 Appendix A Method 26 impinger trains Analyzed by: Radian International LLC

Sample ID Number	Sample	Detection Limit, mg/L	Detected Amount, mg	Cl Detection Limit Concentration, mg/m³	HCI/Cl ₂ Detection Limit Concentration, mg/m³ (a)
Maximum DL	H₂SO₄	48.600	0.049	0.066	0.068
Minimum DL	H₂SO₄	47.000	0.047	0.064	990.0
Maximum DL	NaOH	1.230	0.001	0.002	0.002
Minimum DL	NaOH	1.210	0.001	0.002	0.002
אוווווווווווו טר	Naci	012.1	0.001	0.002	

molecular weight of CI-; the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H₂SO₄ estimate the The HCI/Cl₂ concentration reflects the estimated concentration of HCI based on the ratio of the molecular weight of HCI to the HCI concentration.

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR HCI/CI2 TRAINS

 Run No.
 GP-1

 Train No.
 A

 Barometric Pressure =
 648 mmHg

 25.51 in. Hg

 DGMCF =
 0.9935

_	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
_	0		
	5.6	1.8	17
	11.1	1.8	17
	16.4	1.8	17
	21.7	1.8	18
	27.8	1.8	18
	33.39	1.8	19
Volume =	33.39		
Average =		1.80	17.7

Volume corrected to standard conditions =	28.66 std ft ³
Ts =	528 °R
Ps =	29.92 in. Hg
Tmeter =	524 °R
Pmeter =	25.64 in. Hg

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR $\mbox{HCI/CI}_2$ TRAINS

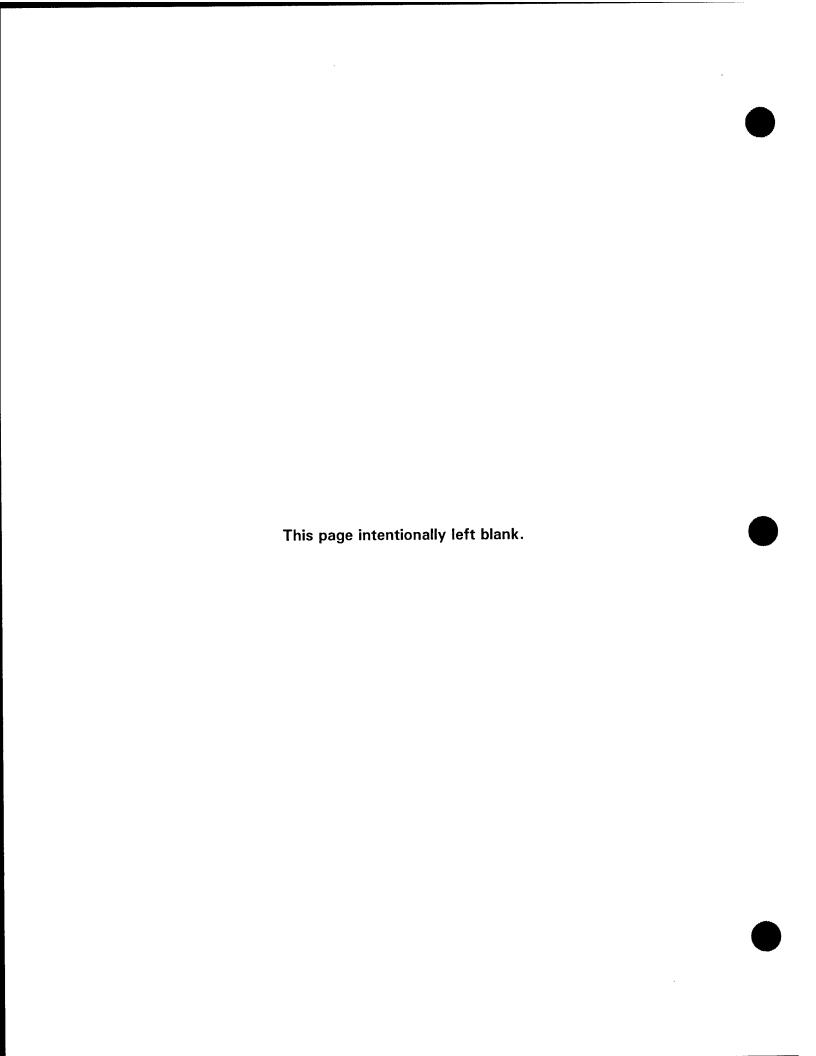
Run No. GP-1 Train No. B

Barometric Pressure = 648 mmHg 25.51 in. Hg

DGMCF = 1.0046

_	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
_	520.5		
	525.8	1.2	68
	531	1.2	70
	536	1.2	71
	541	1.2	72
	546.6	1.2	73
	551.98	1.2	73
Volume =	31.48		
Average =		1.20	71.2

Volume corrected to standard conditions =	23.04 std ft ³	\neg
Ts =	528 °R	
Ps =	29.92 in. Hg	
Tmeter =	620 °R	
Pmeter =	25.60 in. Hg	



WHITE PARACHUTE SIGNAL FLARE

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HCI/Cl₂ Analysis of the Air Sample - 40 CFR 60 Appendix A Method 9057; sample collected **TABLE G-1. AEC - RUN NO. 1 WP TEST (1 APRIL 1998)** in 40 CFR 60 Appendix A Method 26 impinger trains

Analyzed by: Radian International LLC

. .			<u> </u>	
Average HCl/Cl ₂ Concentration, mg/m³ (a)	בַּצ	2	0900	0.000
Cl Concentration, mg/m³	QN	QN	0:020	0.085
Detected Amount, mg	ON	αN	0.041	0.056
Detection Limit, ug	55.1	53.5	1.18	1.26
Amount Detected,	18.4	45.65	41.1	55.55
Sample	Run 1 Train A H ₂ SO ₄	Run 1 Train B H₂SO₄	Run 1 Train A NaOH	Run 1 Train B NaOH
Sample ID Number	DPG-781 (b)	DPG-783 (b)	DPG-782 (b)	DPG-784 (b)

The HCI/Cl₂ concentration reflects the estimated concentration of HCl based on the ratio of the molecular weight of HCl to the molecular weight of Cl; the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H2SO4 estimate the HCI concentration.

The amount shown is the average of the measured and duplicate values.

53.500 55.100 Maximum (H₂SO₄) DL = Maximum (NaOH) DL = Minimum (NaOH) DL = Minimum (H₂SO₄) DL =

TABLE G-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

in 40 CFR 60 Appendix A Method 26 impinger trains

Analyzed by: Radian International LLC

Sample ID Number	Sample	Amount Detected, ug	Detection Limit, ug	Amount Detected, mg	Cl [.] Concentration, mg/m³	HCI/CI ₂ Concentration, mg/m³ (a)
DPG-746 (b)	Background 0.1 N H ₂ SO₄	16.05	45.9	QN	QN	QN
DPG-747 (b)	Background 0.1N NaOH	11.7	1.12	0.012	0.014	0.014
DPG-907 (b)	Reagent Blank 0.1 N H ₂ SO ₄	22.3	289	ΩN	VΑ	NA
DPG-908	Reagent Blank 0.1N NaOH	0	2.79	ND	NA	NA
(a) 606-PAO	Reagent Blank Rinsate Distilled H ₂ O	2.425	5.4	ON	ΥN	AN
DPG-905/946 (b)	Field Blank 0.1 N H ₂ SO ₄	75.9	55.1	0.076	NA	ΑN
DPG-906/947 (b)	Field Blank 0.1N NaOH	6.82	1.23	0.007	AN	NA

The HCI/Cl₂ concentration reflects the estimated concentration of HCl based on the ratio of the molecular weight of HCl to the molecular weight of Cl'; the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H₂SO₄ estimate the HCl concentration.

The amount shown is the average of the measured and duplicate values.

HCI/Cl₂ Analysis of the Air Sample - 40 CFR 60 Appendix A Method 9057; sample collected TABLE G-3. AEC - RUN NO. 1 WP TEST (1 APRIL 1998) in 40 CFR 60 Appendix A Method 26 impinger trains Analyzed by: Radian International LLC

Sample ID Number	Sample	Detection Limit, ug	Detected Amount, mg	Cl ⁻ Detection Limit Concentration, mg/m ³	HCI/Cl ₂ Detection Limit Concentration, mg/m³ (a)
faximum DL	H ₂ SO ₄	55.100	0.055	0.075	0.077
linimum DL	H₂SO₄	53.500	0.054	0.073	0.075
Aaximum DL	NaOH	1.260	0.001	0.002	0.002
inimum DL	NaOH	1.180	0.001	0.002	0.002

molecular weight of CI-; the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H₂SO₄ estimate the The HCI/Cl₂ concentration reflects the estimated concentration of HCl based on the ratio of the molecular weight of HCl to the HCI concentration.

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR $\mathrm{HCI/Cl_2}$ TRAINS

Run No.

WP-Background

Train No.

Barometric Pressure =

648

mmHg

25.51

in. Hg

DGMCF = 0.9935

_	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
-	0		
	5.6	1.8	9
	11.2	1.8	8
	16.8	1.8	9
	22.5	1.8	9
	28.2	1.8	9
	33.81	1.8	9
Volume =	33.81		
Average =		1.80	8.8

Volume corrected to standard conditions =	29.93 std ft ³
Ts =	528 °R
Ps =	29.92 in. Hg
Tmeter =	508 °R
Pmeter =	25.64 in. Hg

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR $\mathrm{HCl/Cl_2}$ TRAINS

 Run No.
 WP-2

 Train No.
 A

 Barometric Pressure =
 645
 mmHg

 25.39
 in. Hg

 DGMCF =
 0.9935

	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
· -	0		
	5.5	1.8	12
	11	1.8	12
	17.5	1.8	13
	22.8	1.8	14
	27.2	1.8	14
	33.49	1.8	15
Volume =	33.49		
Average =		1.80	13.3

Volume corrected to standard conditions =	29.04 std ft ³
Ts =	528 °R
Ps =	29.92 in. Hg
Tmeter = .	516 °R
Pmeter =	25.52 in. Hg

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR HCI/CI_2 TRAINS

Run No.

WP-2

Train No.

В

Barometric Pressure =

645 25.39 mmHg

in. Hg

DGMCF = 1.0046

_	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
_	554.8		
	559.8	1.2	52
	565	1.2	55
	570	1.2	57
	575	1.2	60
	580	1.2	61
	585.15	1.2	64
Volume =	30.35		
Average =		1.20	58.2

25.48 in. Hg

Volume corrected to standard conditions =	22.98 std ft°
Ts =	528 °R
Ps =	29.92 in. Hg
Tmeter =	597 °R

Pmeter = Average $\Delta H/13.6$ + Barometric Pressure (in. Hg)

Pmeter =

155 MM ILLUMINATION ROUND

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TABLE G-1. AEC - RUN NO. 1 IR TEST (1 APRIL 1998)

in 40 CFR 60 Appendix A Method 26 impinger trains

Analyzed by: Radian International LLC

		1		
Average HCt/Ct ₂ Concentration, mg/m³ (a)	CIN	2	0.025	0.053
CT-Concentration,	QN	QN	0.012	0.037
Detected Amount, mg	QN	QN	0.011	0.023
Detection Limit, ug	53.5	42.1	1.03	1.31
Amount Detected,	13.6	29.85	11.1	23.35
Sample	Run 1 Train A H₂SO₄	Run 1 Train B H ₂ SO ₄	Run 1 Train A NaOH	Run 1 Train B NaOH
Sample ID Number	DPG-531 (b)	DPG-533 (b)	DPG-532 (b)	DPG-534 (b)

The HCI/Cl₂ concentration reflects the estimated concentration of HCI based on the ratio of the molecular weight of HCl to the molecular weight of Cl; the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H₂SO₄ estimate the HCl concentration.

The amount shown is the average of the measured and duplicate values.

53.500 42.100 1.310 Maximum (H₂SO₄) DL = Maximum (NaOH) DL = Minimum (NaOH) DL = Minimum (H₂SO₄) DL =

TABLE G-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

in 40 CFR 60 Appendix A Method 26 impinger trains

Analyzed by: Radian International LLC

						HC//Cl ²
Sample ID Number	Sample	Amount Detected, ug	Detection Limit, ug	Amount Detected, mg	Cl Concentration, mg/m³	Concentration, mg/m³ (a)
DPG-546 (b)	Background 0.1 N H ₂ SO ₄	14.55	51.8	ΩN	ΩN	QN
DPG-547 (b)	Background 0.1N NaOH	25.05	1.18	0.025	0:030	0:030
DPG-907 (b)	Reagent Blank 0.1 N H ₂ SO ₄	22.3	289	Q	NA	NA
DPG-908	Reagent Blank 0.1N NaOH	0	2.79	QN	NA	NA
DPG-909 (b)	Reagent Blank Rinsate Distilled H ₂ O	2.425	5.4	QN	NA	AA
DPG-905/946 (b)	DPG-905/946 (b) Field Blank 0.1 N H ₂ SO ₄	75.9	55.1	0.076	NA	NA
DPG-906/947 (b)	DPG-906/947 (b) Field Blank 0.1N NaOH	6.82	1.23	0.007	NA	NA

a

The HCI/Cl₂ concentration reflects the estimated concentration of HCI based on the ratio of the molecular weight of HCI to the molecular weight of Cl'; the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H₂SO₄ estimate the HCl concentration.

The amount shown is the average of the measured and duplicate values.

HCI/Cl₂ Analysis of the Air Sample - 40 CFR 60 Appendix A Method 9057; sample collected **TABLE G-3. AEC - RUN NO. 1 IR TEST (1 APRIL 1998)** in 40 CFR 60 Appendix A Method 26 impinger trains Analyzed by: Radian International LLC

Sample ID Number:	Sample	Detection Limit, mg/L	Detected Amount, mg	CI Detection Limit Concentration, mg/m³	HCI/Cl ₂ Detection Limit Concentration, mg/m³ (a)
Maximum DL	H₂SO₄	53.500	0.054	0.069	0.071
Minimum DL	H ₂ SO₄	42.100	0.042	0.055	0.056
Maximum DL	NaOH	1.310	0.001	0.002	0.005
Minimum DL	NaOH	1.030	0.001	0.001	0.001

molecular weight of CI-; the ratio is calculated as 36.46 g/gmol divided by 35.45 g/gmol. Impingers that contain H₂SO₄ estimate the The HCI/Cl₂ concentration reflects the estimated concentration of HCI based on the ratio of the molecular weight of HCI to the HCI concentration.

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR HCI/CI2 TRAINS

Run No.

IR-Background

Train No.

Barometric Pressure =

645

mmHg in. Hg

DGMCF =

25.39 0.9935

_	Dry Gas Meter Reading (ft ³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
=			
	0		
	5.5	1.8	8
	11	1.8	8
	16.5	1.8	8
	22	1.8	9
	27.5	1.8	9
	33.18	1.8	9
Volume =	33.18		
Average =		1.80	8.5

Volume corrected to standard conditions =	29.27 std ft ³
Ts =	528 °R
Ps =	29.92 in. Hg
Tmeter =	507 °R
Pmeter =	25.52 in. Ha

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR $\mathrm{HCI/Cl_2}$ TRAINS

Run No.

IR-1

Train No.

Α

Barometric Pressure =

643 25.31 mmHg

in. Hg

DGMCF = 0.9935

	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
	0		
	6.5	1.8	16
	12.7	1.8	16
	19	1.8	17
	25.4	1.8	17
	32.3	1.8	18
	37.81	1.8	18
/olume = ¯	37.81		
verage =		1.80	17.0

Volume corrected to standard conditions =	32.28 std ft ³
Ts = -	528 °R
Ps =	29.92 in. Hg
Tmeter =	523 °R
Pmeter =	25.45 in. Hg

APPENDIX G - AEC - SAMPLE VOLUME CALCULATIONS FOR HCI/CI₂ TRAINS

Run No. IR-1 Train No. B

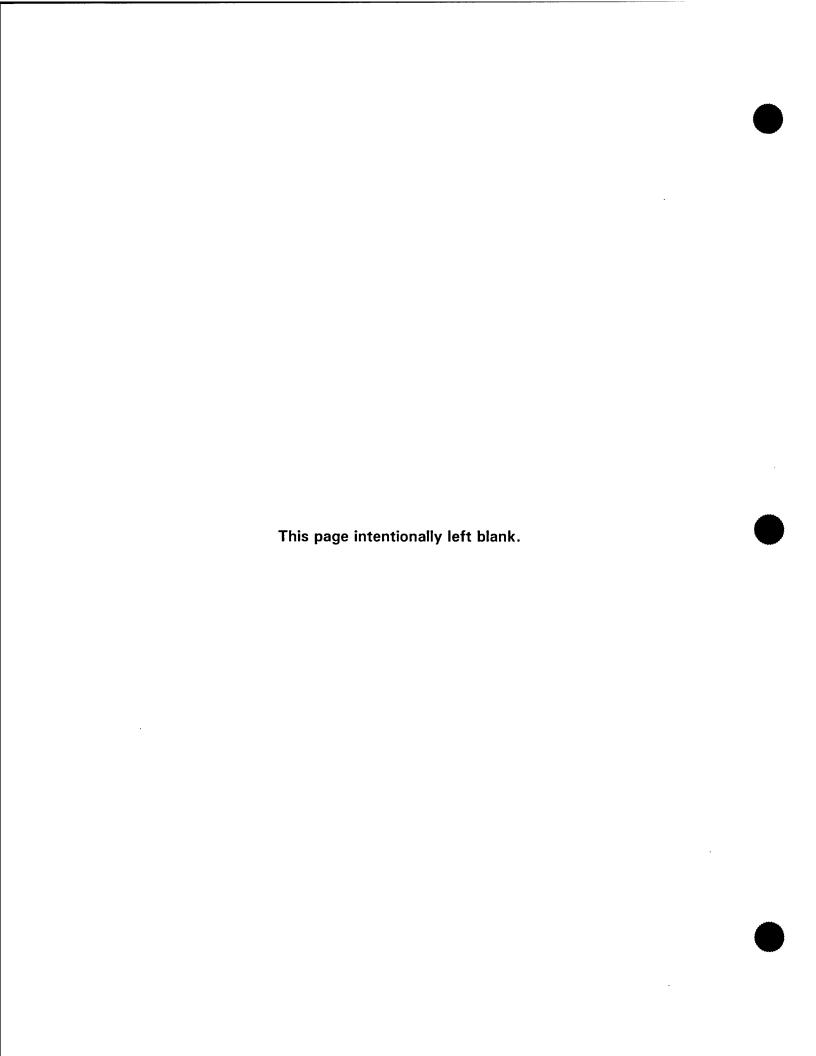
Barometric Pressure = 643 mmHg 25.31 in. Hg

DGMCF = 1.0046

_	Dry Gas Meter Reading (ft³)	ΔH (in H₂O)	Dry Gas Meter Temperature (°C)
_	587		
	592	1.2	64
	597.1	1.2	67
	602.2	1.2	67
	607.2	1.2	68
	612.2	1.2	69
	617.11	1.2	69
Volume =	30.11		
Average =		1.20	67.3

Volume corrected to standard conditions =	22.11 std ft ³
Ts =	528 °R
Ps =	29.92 in. Hg
Tmeter =	613 °R
Pmeter =	25.40 in. Hg

APPENDIX II-H. DIOXIN/FURAN DATA RESULTS



SIMULATOR BOOBY TRAP FLASH M117

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	Run 1 Train A - Amount Detected no	Run 1 Train A-Detection	Run 1 Train A - Concentration,	Run 1 Train B - Amount Detected no	Run 1 Train B -Detection	Run 1 Train B - Concentration,	Average Concentration -
2.3,7,8-TCDD	QN	1.5	ON.	ON ON	2.1	NO	QN
1,2,3,7,8-PeCDD	QN	2.6	QN	ND	3	Q	QN
1,2,3,4,7,8-HxCDD	QN	4.2	QN	QN	4	QN	QN
1,2,3,6,7,8-HxCDD	ND	3.9	QN	QN	3.7	QN	ND
1,2,3,7,8,9-HxCDD	ND	4	ND	ΩN	3.8	QN	QN
1,2,3,4,6,7,8-HpCDD	ND		ND	7.9		3.403E-09	3.403E-09
1,2,3,4,6,7,8,9-OCDD	70.4		2.475E-08	98		1.551E-08	2.013E-08
Total TCDD	ND	1.5	QN	ΩN	2.1	QN	QN
Total PeCDD	QN	2.6	QN	5.5		2.369E-09	2.369E-09
Total HxCDD	QN	4	QN	QN		QV	QN
Total HpCDD	ND		ON	15.7		6.763E-09	6.763E-09
2,3,7,8-TCDF	DN		QN	5.4		2.326E-09	2.326E-09
1,2,3,7,8-PeCDF	QN	2	ND	QN	. 2.3	ND	QN
2,3,4,7,8-PeCDF	QN	2.1	ΩN	QN	2.4	QN	QN
1,2,3,4,7,8-HxCDF	4.8		1.687E-09	4.4		1.895E-09	1.791E-09
1,2,3,6,7,8-HxCDF	2.5		8.787E-10	QN		ND	8.787E-10
2,3,4,6,7,8-HxCDF	3.4		1.195E-09	2.8		1.206E-09	1.201E-09
1,2,3,7,8,9-HxCDF	ND	2.8	ND	ND	3.3	ND	ΠN
1,2,3,4,6,7,8-HpCDF	ND	3.2	ND	ON		QN	an
1,2,3,4,7,8,9-HpCDF	QN	4.5	ND	ND	4.4	ND	QN
1,2,3,4,6,7,8,9-OCDF	DN	6.3	ON	8.2		3.532E-09	3.532E-09
Total TCDF	ND		QN	5.4		2.326E-09	2.326E-09
Total PeCDF	ND		ND	7.1		3.058E-09	3.058E-09
Total HxCDF	16.3		5.729E-09	12.5		5.385E-09	5.557E-09
Total HpCDF	DN	3.8	QN	QN		ND	QN

TABLE H-1. AEC - RUN NO. 1 BT TEST (28 MARCH 1998)

Polychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected via PUF/XAD/rinsate according to EPA Compendium Method TO-9

Compounds below the DLs are listed as nondetected (ND)

Analyzed by: Triangle Laboratories, Inc.

	Run 1 Train A - Run	-	Train Run 1 Train A - Run 1 Train B - Run 1 Train Run 1 Train B -	Bun 1 Train B -	Run 1 Train	Run 1 Train B -	Average
	Amount	. ₩	ection Concentration,	Amount	B -Detection	B -Detection Concentration,	Concentration -
Analyte (a)	Detected, pg	Limit, pg	mg/m³	Detected, pg	Limit, pg	mg/m³	Run 1, mg/m³
Dioxin TEQ (b)	1.1404		4.008E-10	1.3832		5.958E-10	4.983E-10

All data presented was outside the laboratory calibration range and is considered an estimate only.

TABLE H-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANKPolychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected via PUF/XAD/rinsate according to EPA Compendium Method TO-9 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Triangle Laboratories, Inc.

ND N	1.9 3.6 6.1 5.7 1.9 1.9 3.6 5.8		ON O	3.8 3.1 3.1 4 4	ND ND ND ND ND ND 18.1	2.4 4 4 3.2 3.3 5.6 1.4
CDD ND N	3.6 6.1 5.7 5.7 1.9 3.6 5.8		DN D	3.8 3.1 3.1 4 4 4.5 9.9	ND ND ON DO	2.4 4 3.2 3.3 5.6
(CDD ND N	6.1 5.6 5.7 8.4 12.7 1.9 3.6 5.8		ON ON ON ON ON ON ON ON	3.1 4 4 4.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	ND ND ON	3.2 3.3 5.6 1.4
CDD ND N	5.6 5.7 8.4 12.7 1.9 3.6 5.8		ND ND ND ND ND ND	3.1	ND N	3.2 3.3 3.4 1.4
100 ND	5.7 8.4 12.7 1.9 3.6 5.8		ND N	3.1	ND ND 18.1	3.3 5.6 1.4
4pCDD ND N	8.4 12.7 1.9 3.6 5.8		15.7 ON ON ON	1.5	ND 18.1	5.6
ND N	12.7 1.9 3.6 5.8	ON ON ON	15.7 ND ON	1.5	18.1	1.4
QN QN QN	1.9 3.6 5.8	QN QN		1.5		1.4
QN QN	3.6	20	ON C	60	ND	
QN QN	5.8	2	CIV) i	QN	2.4
QN QN		***************************************	ב	3.2	ON	3.5
ON GA	8.4	QN	ND	4	ND	5.6
CZ	1.4	ND	6.1		4.6	
סאו	2.9	DN	ND	2.2	ON	1.7
QN	3.1	ND	ND	2.3	QN	1.8
1,2,3,4,7,8-HxCDF 5.3		1.246E-09	5.6		QN	2.5
QN	3.7	QN	ND	1.9	QN	2
ON	4.8	ND	QN	2.4	ND	2.5
1,2,3,7,8,9-HxCDF 5.	5.1	DN	ND	2.7	ON	2.9
QN	5.2	ND	DN	2.6	ND	3.4
1,2,3,4,7,8,9-HpCDF 7.3	7.3	ND	ND	3.4	QN	4.4
QN :	9.5	ND	ND	4	QN	6.5
QN	1.4	ND	6.1		4.6	
Total PeCDF ND		ND	DN	2.2	QN	
		2.657E-09	5.6		QN	2.4
Total HpCDF 6.	6.1	QN	ND	3	QN	3.8

TABLE H-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANKPolychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected via PUF/XAD/rinsate according to EPA Compendium Method TO-9 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Triangle Laboratories, Inc.

	Background -	Background -	Background -	Reagent Blank -	Background - Reagent Blank - Reagent Blank - Field Blank -	Field Blank -	Field Blank -
	Amount	Detection Limit,	ion Limit, Concentration,	Amonut	Detection Limit,	Amount	Detection Limit,
Analyte (a)	Detected, pg	pg	mg/m³	Detected, pg	pg	Detected, pg	pd
Dioxin TEQ (b)	0.53		1.246E-10	1.1857		0.4781	

All data presented was outside the laboratory calibration range and is considered an estimate only.

SIMULATOR FLASH ARTILLERY M110

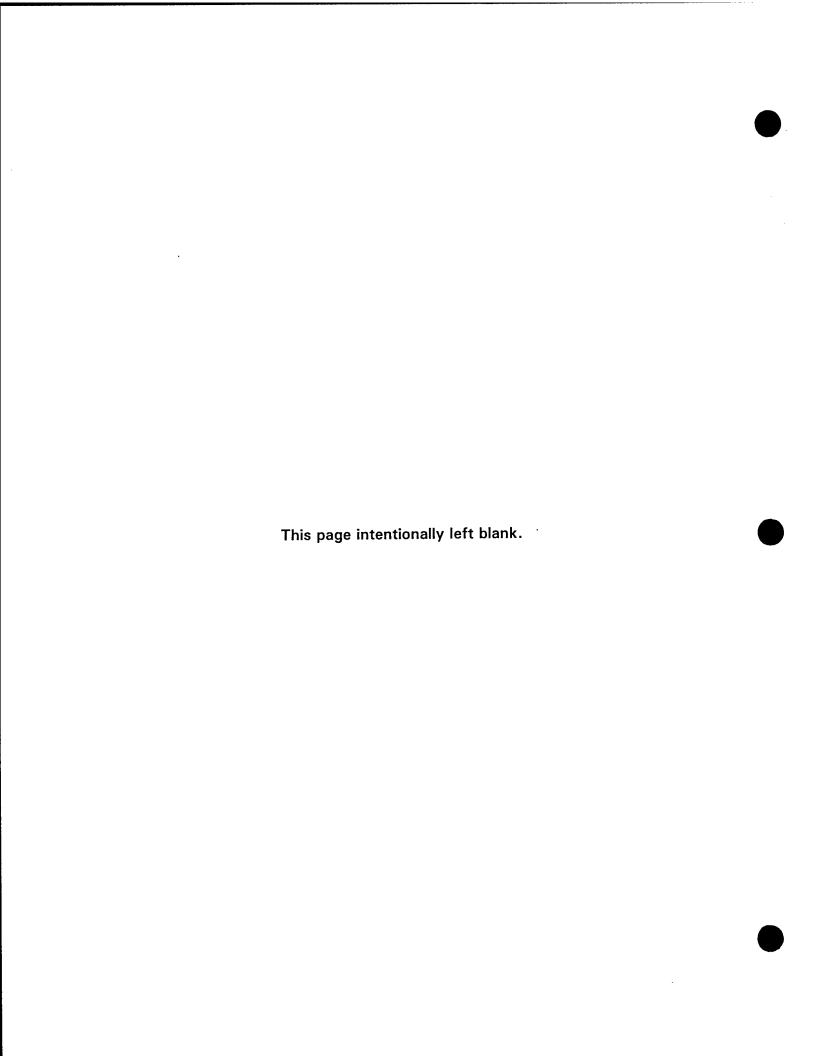


TABLE H-1. AEC - RUN NO. 1 FA TEST (28 MARCH 1998)

Analyte (a)	Run 1 Train A - Amount Detected, pg	Run 1 Train A -Detection Limit, pg	Run 1 Train A - Concentration, mg/m ³	Average Concentration - Run 1, mg/m ³
2,3,7,8-TCDD	ND	2.5	ND	ND
1,2,3,7,8-PeCDD	ND	4.1	ND	ND
1,2,3,4,7,8-HxCDD	ND	8.9	ND	ND
1,2,3,6,7,8-HxCDD	ND	7	ND	ND
1,2,3,7,8,9-HxCDD	ND	7.2	ND	ND
1,2,3,4,6,7,8-HpCDD	30.2		8.916E-09	8.916E-09
1,2,3,4,6,7,8,9-OCDD	209		6.170E-08	6.170E-08
Total TCDD	ND	2.5	ND	ND
Total PeCDD	ND	4.1	ND	ND
Total HxCDD	ND	7.6	ND	ND
Total HpCDD	30.2		8.916E-09	8.916E-09
2,3,7,8-TCDF	10.2		3.011E-09	3.011E-09
1,2,3,7,8-PeCDF	ND	3.3	ND	ND
2,3,4,7,8-PeCDF	ND	3.4	ND	ND
1,2,3,4,7,8-HxCDF	ND		ND	ND
1,2,3,6,7,8-HxCDF	ND		ND	ND
2,3,4,6,7,8-HxCDF	4.1		1.210E-09	1.210E-09
1,2,3,7,8,9-HxCDF	ND	5.6	ND	ND
1,2,3,4,6,7,8-HpCDF	16.9		4.989E-09	4.989E-09
1,2,3,4,7,8,9-HpCDF	ND	9.1	ND	ND
1,2,3,4,6,7,8,9-OCDF	ND	14.5	ND	ND
Total TCDF	21.8		6.436E-09	6.436E-09
Total PeCDF	28.3		8.355E-09	8.355E-09
Total HxCDF	4.1		1.210E-09	1.210E-09
Total HpCDF	16.9		4.989E-09	4.989E-09
Dioxin TEQ (b)	2.11		6.229E-10	6.229E-10

a
All data presented was outside the laboratory calibration range and is considered an estimate only.
b

TABLE H-2. AEC - RUN NO. 2 FA TEST (28 MARCH 1998)

Polychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected via PUF/XAD/rinsate according to EPA Compendium Method TO-9 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Triangle Laboratories, Inc.

Analyte (a)	Run 2 Train A - Amount Detected, pg	Run 2 Train A -Detection Limit, pg	Run 2 Train A - Concentration, mg/m ³	Average Concentration - Run 2, mg/m ³
2,3,7,8-TCDD	ND	2.6	ND	ND ND
1,2,3,7,8-PeCDD	ND	4.7	ND ND	ND ND
1,2,3,4,7,8-HxCDD	ND ND	7.9	ND ND	
1,2,3,6,7,8-HxCDD	ND ND	7.9		ND ND
			ND ND	ND ND
1,2,3,7,8,9-HxCDD	ND ND	7.5	ND	ND
1,2,3,4,6,7,8-HpCDD	ND		ND	ND
1,2,3,4,6,7,8,9-OCDD	181		5.683E-08	5.683E-08
Total TCDD	ND	2.6	ND	ND
Total PeCDD	ND	4.7	ND	ND
Total HxCDD	ND	7.5	ND	ND
Total HpCDD	ND		ND	ND
2,3,7,8-TCDF	ND	2	ND	ND
1,2,3,7,8-PeCDF	ND	3.6	ND	ND
2,3,4,7,8-PeCDF	ND	3.8	ND	ND
1,2,3,4,7,8-HxCDF	ND		ND	ND
1,2,3,6,7,8-HxCDF	ND	4.3	ND	ND
2,3,4,6,7,8-HxCDF	ND	5.5	ND	ND
1,2,3,7,8,9-HxCDF	ND	5.8	ND	ND
1,2,3,4,6,7,8-HpCDF	ND		ND	ND
1,2,3,4,7,8,9-HpCDF	ND	9.2	ND	ND
1,2,3,4,6,7,8,9-OCDF	11.8		3.705E-09	3.705E-09
Total TCDF	ND	2	ND	ND
Total PeCDF	ND	3.7	ND	ND
Total HxCDF	ND		ND	ND
Total HpCDF	ND		ND	ND
Dioxin TEQ (b)	0.1928		6.054E-11	6.054E-11

a
 All data presented was outside the laboratory calibration range and is considered an estimate only.
 b
 Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD

TABLE H-3. AEC - RUN NO. 1-2 COMPOSITE FA TEST (28 MARCH 1998)

Polychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected via PUF/XAD/rinsate according to EPA Compendium Method TO-9 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Triangle Laboratories, Inc.

Analyte (a)	Run 1-2 Train B -Amount Detected, pg	Run 1-2 Train B - Detection Limit, pg	Run 1-2 Train B - Concentration, mg/m³	Average Concentration - Run 1-2, mg/m ³
2,3,7,8-TCDD	ND	1.9	ND	ND
1,2,3,7,8-PeCDD	ND	3.9	ND	ND
1,2,3,4,7,8-HxCDD	ND	5.3	ND	ND
1,2,3,6,7,8-HxCDD	ND	4.8	ND	ND
1,2,3,7,8,9-HxCDD	ND	5	ND	ND
1,2,3,4,6,7,8-HpCDD	57.6		7.569E-09	7.569E-09
1,2,3,4,6,7,8,9-OCDD	453		5.953E-08	5.953E-08
Total TCDD	ND	1.9	ND	ND
Total PeCDD	ND	3.9	ND	ND
Total HxCDD	ND	5	ND	ND
Total HpCDD	110		1.445E-08	1.445E-08
2,3,7,8-TCDF	ND		ND	ND
1,2,3,7,8-PeCDF	ND	2.6	ND	ND
2,3,4,7,8-PeCDF	ND	2.7	ND	ND
1,2,3,4,7,8-HxCDF	ND		ND	ND
1,2,3,6,7,8-HxCDF	ND		ND	ND
2,3,4,6,7,8-HxCDF	6.7		8.804E-10	8.804E-10
1,2,3,7,8,9-HxCDF	ND	4.1	ND	ND
1,2,3,4,6,7,8-HpCDF	26.8		3.522E-09	3.522E-09
1,2,3,4,7,8,9-HpCDF	ND	7.1	ND	ND
1,2,3,4,6,7,8,9-OCDF	ND		ND	ND
Total TCDF	14.8		1.945E-09	1.945 E-0 9
Total PeCDF	10.7		1.406E-09	1.406E-09
Total HxCDF	21.2		2.786E-09	2.786E-09
Total HpCDF	43.9		5.769E-09	5.769E-09
Dioxin TEQ (b)	1.967		2.585E-10	2.585E-10

а

All data presented was outside the laboratory calibration range and is considered an estimate only.

b

TABLE H-4. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

	Background -	Background -	Background - Concentration.	Reagent Blank -	Reagent Blank -	Field Blank -	Field Blank -
Analyte (a)	Detected, pg	pg	mg/m³	Detected, pg	pg pg	Detected, pg	percental Limit,
2,3,7,8-TCDD	QN	1.5	ON	QN	1.5	QN	1.4
1,2,3,7,8-PeCDD	QN	2.6	ON	QN	2.9	QN	2.4
1,2,3,4,7,8-HxCDD	QN	5	ND	ΩN	3.8	QN	4
1,2,3,6,7,8-HxCDD	QN	4.5	ND	ΩN	3	QN	3.2
1,2,3,7,8,9-HxCDD	QN	4.7	QN	ΩN	3.1	QV	3.3
1,2,3,4,6,7,8-HpCDD	QN	6.5	ND	QN	4	QN	5.6
1,2,3,4,6,7,8,9-OCDD	17.3		3.972E-09	15.7		18.1	
Total TCDD	QN		ND	QN	1.5	ΔN	1.4
Total PeCDD	QN	2.6	ND	QN	2.9	QN	2.4
Total HxCDD	QN	4.7	QN	ΩN	3.2	QN	3.5
Total HpCDD	QN	6.5	ND	ΩN	4	QN	5.6
2,3,7,8-TCDF	ND	1	QN	6.1		4.6	
1,2,3,7,8-PeCDF	QN	2.1	ND	ΩN	2.2	QN	1.7
2,3,4,7,8-PeCDF	QN	2.2	QN	ΩN	2.3	Q	1.8
1,2,3,4,7,8-HxCDF	5.8		1.332E-09	9.5		QN	2.5
1,2,3,6,7,8-HxCDF	ND	2.6	ON	ΩN	1.9	QN	2
2,3,4,6,7,8-HxCDF	ND	3.3	ND	QN	2.4	QN	2.5
1,2,3,7,8,9-HxCDF	ND	3.5	ND	an	2.7	QN	2.9
1,2,3,4,6,7,8-HpCDF	ND	4.6	۵N	QN	2.6	QN	3.4
1,2,3,4,7,8,9-HpCDF	ON	6.5	ND	QN	3.4	QN	4.4
1,2,3,4,6,7,8,9-OCDF	QN	7.3	QN	ΩN	4	2	6.5
Total TCDF	QN	1	QN	6.1		4.6	
Total PeCDF	QN		QN	ΩN	2.2	QN	
Total HxCDF	5.8		1.332E-09	5.6		QN	2.4
Total HpCDF	ND	5.4	QN	QN	3	QN	3.8

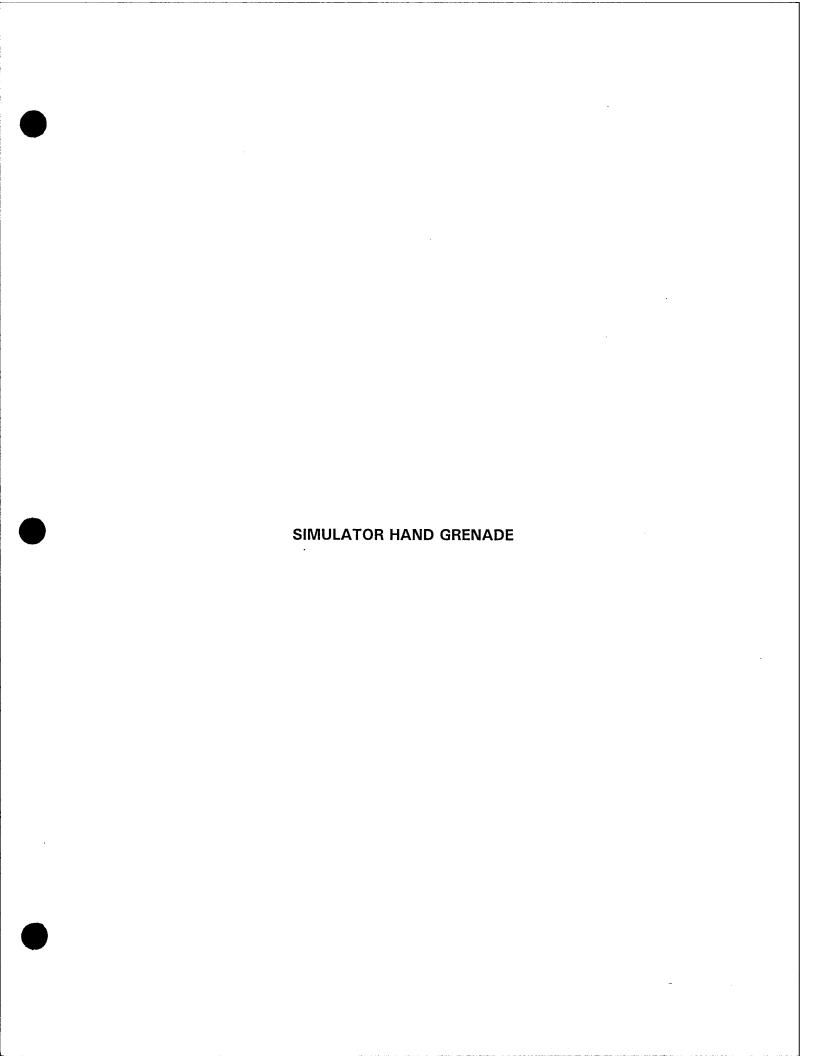
TABLE H-4. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Polychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected via PUF/XAD/rinsate according to EPA Compendium Method TO-9 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Triangle Laboratories, Inc.

Detected, pg	mg/m² Detected, pg	mg/m²
/ m³ IE-10	pg mg	Pg pg

All data presented was outside the laboratory calibration range is considered an estimate only.

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TABLE H-1. AEC - RUN NO. 1 HG TEST (30 MARCH 1998)

Analyzed by: Triangle Laboratories, Inc.

Analyte (a)	Run 1 Train A - Amount Detected, pg	Run 1 Train A -Detection Limit, pg	Run 1 Train A - Concentration, mg/m ³	Average Concentration - Run 1, mg/m ³
2,3,7,8-TCDD	ND	4.4	ND	ND
1,2,3,7,8-PeCDD	ND	7.9	ND	ND
1,2,3,4,7,8-HxCDD	ND	16.1	ND	ND
1,2,3,6,7,8-HxCDD	ND	12.6	ND	ND
1,2,3,7,8,9-HxCDD	ND	13.1	ND	ND
1,2,3,4,6,7,8-HpCDD	ND	19	. ND	ND
1,2,3,4,6,7,8,9-OCDD	56.7		3.472E-08	3.472E-08
Total TCDD	ND	4.4	ND	ND
Total PeCDD	ND	7.9	ND	ND
Total HxCDD	ND	13.8	ND	ND
Total HpCDD	ND	19	ND	ND
2,3,7,8-TCDF	ND	3.2	ND	ND
1,2,3,7,8-PeCDF	ND	5.6	ND	ND
2,3,4,7,8-PeCDF	ND	5.8	ND	ND
1,2,3,4,7,8-HxCDF	ND	10.9	ND	ND
1,2,3,6,7,8-HxCDF	ND	8.7	ND	ND
2,3,4,6,7,8-HxCDF	ND	11.1	ND	ND
1,2,3,7,8,9-HxCDF	ND	12.6	ND	ND
1,2,3,4,6,7,8-HpCDF	ND	15.4	ND	ND
1,2,3,4,7,8,9-HpCDF	ND	19.8	ND	ND
1,2,3,4,6,7,8,9-OCDF	ND	24.6	ND	ND
Total TCDF	ND	3.2	ND	ND
Total PeCDF	ND	5.7	ND	ND
Total HxCDF	ND	10.6	ND	ND
Total HpCDF	ND	17.3	ND	ND
Dioxin TEQ (b)	0.0567		3.472E-11	3.472E-11

a
All data presented was outside the laboratory calibration range and is an estimate only.
b
Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD

TABLE H-2. AEC - RUN NO. 2 HG TEST (30 MARCH 1998)

Analyzed by: Triangle Laboratories, Inc.

Analyte (a)	Detected, pg	A -Detection Limit, pg	Run 2 Train A - Concentration, mg/m ³	Average Concentration - Run 2, mg/m ³
2,3,7,8-TCDD	ND ND	3.9	ND NB	ND
1,2,3,7,8-PeCDD	ND	4.8	ND	ND
1,2,3,4,7,8-HxCDD	ND	6.2	ND	ND
1,2,3,6,7,8-HxCDD	ND	5.7	ND	ND
1,2,3,7,8,9-HxCDD	ND	5.8	ND	ND
1,2,3,4,6,7,8-HpCDD	19.7		1.706E-08	1.706E-08
1,2,3,4,6,7,8,9-OCDD	99.8		8.645E-08	8.645E-08
Total TCDD	ND	3.9	ND	ND
Total PeCDD	ND	4.8	ND	ND
Total HxCDD	ND	5.9	ND	ND
Total HpCDD	39		3.378E-08	3.378E-08
2,3,7,8-TCDF	ND	2.9	ND	ND
1,2,3,7,8-PeCDF	ND	3.7	ND	ND
2,3,4,7,8-PeCDF	ND	3.7	ND	ND
1,2,3,4,7,8-HxCDF	ND	4.1	ND	ND
1,2,3,6,7,8-HxCDF	ND	3.8	ND	ND
2,3,4,6,7,8-HxCDF	ND	4.7	ND	ND
1,2,3,7,8,9-HxCDF	ND	5.2	ND	ND
1,2,3,4,6,7,8-HpCDF	ND	5.6	ND	ND
1,2,3,4,7,8,9-HpCDF	ND	7.9	ND	ND
1,2,3,4,6,7,8,9-OCDF	ND	8.7	ND	ND
Total TCDF	ND	2.9	ND	ND
Total PeCDF	ND	3.7	ND	ND
Total HxCDF	ND	4.4	ND	ND
Total HpCDF	ND	6.5	ND	ND
Dioxin TEQ (b)	0.2968		2.571E-10	2.571E-10

а

All data presented was outside the laboratory calibration range and is an estimate only.

b

TABLE H-3. AEC - RUN NO. 1-2 COMPOSITE HG TEST (30 MARCH 1998)

Analyzed by: Triangle Laboratories, Inc.

Company Compan	Run 1-2 Train B -Amount Detected, pg	Run 1-2 Train B - Detection Limit, pg	Run 1-2 Train B - Concentration, mg/m³	Average Concentration - Run 1-2, mg/m ³
2,3,7,8-TCDD	ND	3.1	ND	ND
1,2,3,7,8-PeCDD	ND	3.5	ND	ND
1,2,3,4,7,8-HxCDD	ND	4.7	ND	ND
1,2,3,6,7,8-HxCDD	ND	4.3	ND	ND
1,2,3,7,8,9-HxCDD	ND	4.4	ND	ND
1,2,3,4,6,7,8-HpCDD	ND		ND	ND
1,2,3,4,6,7,8,9-OCDD	170		5.722E-08	5.722E-08
Total TCDD	ND	3.1	ND	ND
Total PeCDD	ND	3.5	ND	ND
Total HxCDD	ND	4.5	ND	ND
Total HpCDD	27		9.089E-09	9.089E-09
2,3,7,8-TCDF	7.1		2.390E-09	2.390E-09
1,2,3,7,8-PeCDF	ND	3.1	ND	ND
2,3,4,7,8-PeCDF	ND	3.1	ND	ND
1,2,3,4,7,8-HxCDF	4.9		1.649E-09	1.649E-09
1,2,3,6,7,8-HxCDF	ND	2.9	ND	ND
2,3,4,6,7,8-HxCDF	ND	3.6	ND	ND
1,2,3,7,8,9-HxCDF	ND	4	ND	ND
1,2,3,4,6,7,8-HpCDF	8.6		2.895E-09	2.895E-09
1,2,3,4,7,8,9-HpCDF	ND	6.5	ND	ND
1,2,3,4,6,7,8,9-OCDF	ND	7.2	ND	ND
Total TCDF	7.1		2.390E-09	2.390E-09
Total PeCDF	9.2		3.097E-09	3.097E-09
Total HxCDF	11.9		4.006E-09	4.006E-09
Total HpCDF	8.6		2.895E-09	2.895E-09
Dioxin TEQ (b)	1.456		4.901E-10	4.901E-10

а

All data presented was outside the laboratory calibration range and is an estimate only.

b

TABLE H-4. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

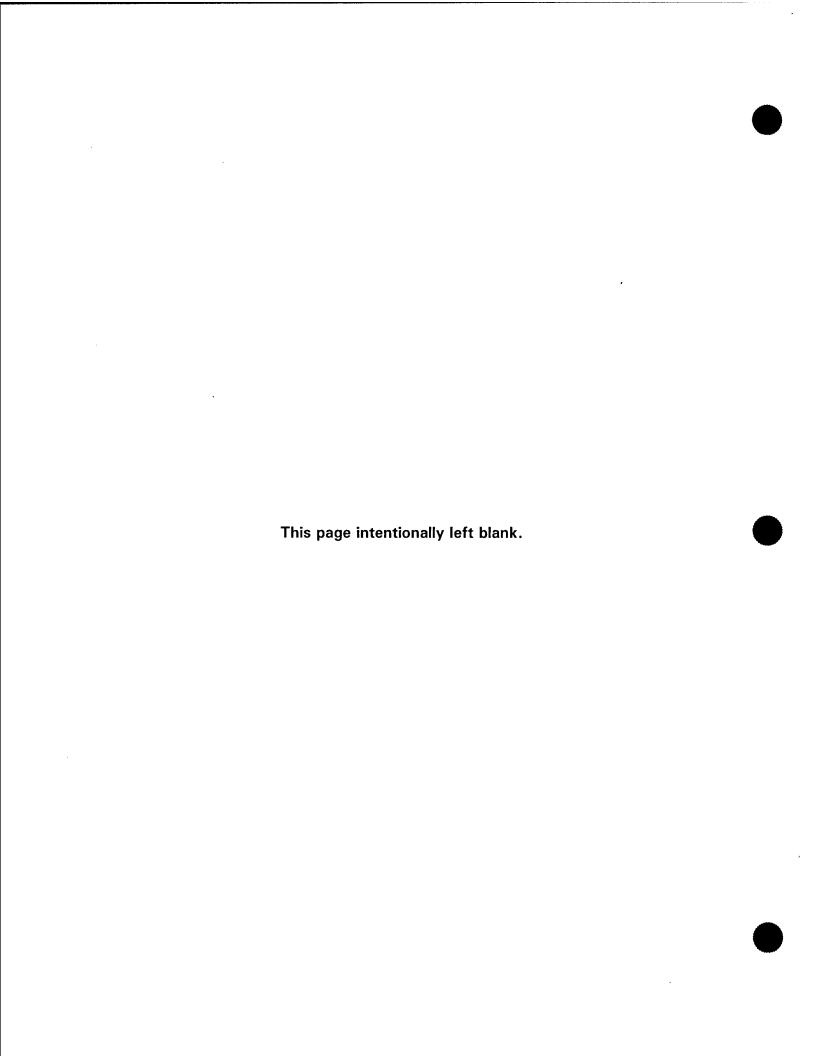
	Background -	Background -	Background -	Reagent Blank -	Reagent Blank -	Field Blank -	Field Blank -
Analyte (a)	Detected, pg	Detection Limit,	mg/m³	Amount Detected, pg	Detection Limit, pg	Amount Detected, pg	Detection Limit, pg
2,3,7,8-TCDD	ND	6.3	ND	QN	1.5	ΩN	1.4
1,2,3,7,8-PeCDD	QN	11.5	ND	ΩN	2.9	Q	2.4
1,2,3,4,7,8-HxCDD	ON	24.1	ND	ΩN	3.8	QN	4
1,2,3,6,7,8-HxCDD	QN	18.9	ND	QN	င	QN	3.2
1,2,3,7,8,9-HxCDD	Q	19.6	ND	QN	3.1	Q	3.3
1,2,3,4,6,7,8-HpCDD	ND	30.1	ND	QN	4	QN	5.6
1,2,3,4,6,7,8,9-OCDD	QN	43.9	ND	15.7		18.1	
Total TCDD	Q	6.3	ND	QN	1.5	Q	1.4
Total PeCDD	QN	11.5	ND	QN	5.9	QN	2.4
Total HxCDD	QN	20.6	ND	QN	3.2	QN	3.5
Total HpCDD	ND	30.1	ND	QN	4	Q	5.6
2,3,7,8-TCDF	Ω	5.4	ND	6.1		4.6	
1,2,3,7,8-PeCDF	ΩN	9.1	ND	QN	2.2	QN	1.7
2,3,4,7,8-PeCDF	ND	9.4	ND	QN	2.3	QN	1.8
1,2,3,4,7,8-HxCDF	QN	13.8	ND	5.6		ND	2.5
1,2,3,6,7,8-HxCDF	QN	11.1	ND	QN	1.9	QN	2
2,3,4,6,7,8-HxCDF	QN	14.1	ND	ND	2.4	QN	2.5
1,2,3,7,8,9-HxCDF	QN	16	Ω	ND	2.7	ND	2.9
1,2,3,4,6,7,8-HpCDF	QN	17.8	ND	ND	2.6	QN	3.4
1,2,3,4,7,8,9-HpCDF	QN	22.9	ND	ND	3.4	QN	4.4
1,2,3,4,6,7,8,9-OCDF	ND	35.3	2	Q.	4	QN	6.5
Total TCDF	ND	5.4	QN	6.1		4.6	
Total PeCDF	ND	9.5	QN	QN	2.2	QN	
Total HxCDF	ND	13.5	ND	5.6		QN	2.4
Total HpCDF	QN	20	ND	QN	3	ND	3.8

TABLE H-4. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Polychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected via PUF/XAD/rinsate according to EPA Compendium Method TO-9 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Triangle Laboratories, Inc.

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All data presented was outside the laboratory calibration range and is an estimate only.



SIMULATOR GROUND BURST

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TABLE H-1. AEC - RUN NO. 1 GB TEST (30 MARCH 1998)

Particles of Analyte (a)	Run 1 Train A - Amount Detected, pg	Run 1 Train A -Detection Limit, pg	Run 1 Train A - Concentration, mg/m³	Average Concentration - Run 1, mg/m ³
2,3,7,8-TCDD	ND	3.6	ND	ND
1,2,3,7,8-PeCDD	ND	4	ND	ND
1,2,3,4,7,8-HxCDD	ND	5.5	ND	ND
1,2,3,6,7,8-HxCDD	ND	5.1	ND	ND
1,2,3,7,8,9-HxCDD	ND	5.1	ND	ND
1,2,3,4,6,7,8-HpCDD	24.3		1.526E-08	1.526E-08
1,2,3,4,6,7,8,9-OCDD	94.6		5.942E-08	5.942E-08
Total TCDD	ND	3.6	ND	ND
Total PeCDD	ND	4	ND	ND
Total HxCDD	ND	5.2	ND	ND
Total HpCDD	48.8		3.065E-08	3.065E-08
2,3,7,8-TCDF	7.7		4.837E-09	4.837E-09
1,2,3,7,8-PeCDF	ND	3.4	ND	ND
2,3,4,7,8-PeCDF	ND	3.4	ND	ND
1,2,3,4,7,8-HxCDF	8.3		5.214E-09	5.214E-09
1,2,3,6,7,8-HxCDF	ND	3.4	ND	ND
2,3,4,6,7,8-HxCDF	ND	4.3	ND	ND
1,2,3,7,8,9-HxCDF	ND	4.7	ND	ND
1,2,3,4,6,7,8-HpCDF	ND		ND	ND
1,2,3,4,7,8,9-HpCDF	ND	7.4	ND	ND
1,2,3,4,6,7,8,9-OCDF	ND	7.4	ND	ND
Total TCDF	7.7		4.837E-09	4.837E-09
Total PeCDF	ND	3.4	ND	ND
Total HxCDF	8.3		5.214E-09	5.214E-09
Total HpCDF	ND		ND	ND
Dioxin TEQ (b)	1.9376		1.217E-09	1.217E-09

a
All data presented was outside the laboratory calibration range and is considered an estimate only.
b
Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD

TABLE H-2. AEC - RUN NO. 2 GB TEST (30 MARCH 1998)

	7			
Analyte (a)	Run 2 Train A - Amount Detected, pg	Run 2 Train A -Detection Limit, pg	Run 2 Train A - Concentration, mg/m³	Average Concentration - Run 2, mg/m ³
2,3,7,8-TCDD	ND	3.7	ND	ND
1,2,3,7,8-PeCDD	ND	4.5	ND	ND
1,2,3,4,7,8-HxCDD	ND	6.1	ND	ND
1,2,3,6,7,8-HxCDD	ND	5.6	ND	ND
1,2,3,7,8,9-HxCDD	ND	5.7	ND	ND
1,2,3,4,6,7,8-HpCDD	24.8		2.428E-08	2.428E-08
1,2,3,4,6,7,8,9-OCDD	147		1.439E-07	1.439E-07
Total TCDD	ND	3.7	ND	ND
Total PeCDD	ND	4.5	ND	ND
Total HxCDD	ND	5.8	ND	ND
Total HpCDD	56.9		5.571E-08	5.571E-08
2,3,7,8-TCDF	7.9		7.735E-09	7.735E-09
1,2,3,7,8-PeCDF	ND	3.4	ND	ND
2,3,4,7,8-PeCDF	ND	3.4	ND	ND
1,2,3,4,7,8-HxCDF	6.1		5.972E-09	5.972E-09
1,2,3,6,7,8-HxCDF	ND	3.6	ND	ND
2,3,4,6,7,8-HxCDF	ND	4.5	ND	ND
1,2,3,7,8,9-HxCDF	ND	4.9	ND	ND
1,2,3,4,6,7,8-HpCDF	ND	5.1	ND	ND
1,2,3,4,7,8,9-HpCDF	ND	7.2	ND	ND
1,2,3,4,6,7,8,9-OCDF	ND	8.8	ND	ND
T-1-LTODE				

7.735E-09

6.951E-09

5.972E-09

ND

1.757E-09

7.735E-09

6.951E-09

5.972E-09

ND

1.757E-09

5.9

7.9

7.1

6.1

ND

1.795

Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD

Total TCDF

Total PeCDF

Total HxCDF

Total HpCDF

Dioxin TEQ (b)

a

All data presented was outside the laboratory calibration range and is considered an estimate only.

TABLE H-3. AEC - RUN NO. 1-2 COMPOSITE GB TEST (30 MARCH 1998)

Analyte (a)	Run 1-2 Train B -Amount Detected, pg	Run 1-2 Train B - Detection Limit, pg	Run 1-2 Train B - Concentration, mg/m³	Average Concentration - Run 1-2, mg/m³
2,3,7,8-TCDD	ND	3	ND	ND
1,2,3,7,8-PeCDD	ND	3.4	ND	ND
1,2,3,4,7,8-HxCDD	ND	4.4	ND	ND
1,2,3,6,7,8-HxCDD	ND	4.1	ND	ND
1,2,3,7,8,9-HxCDD	ND	4.1	ND	ND
1,2,3,4,6,7,8-HpCDD	36.5		1.464E-08	1.464E-08
1,2,3,4,6,7,8,9-OCDD	237		9.504E-08	9.504E-08
Total TCDD	ND	3	ND	ND
Total PeCDD	ND	3.4	ND	ND
Total HxCDD	11.9		4.772E-09	4.772E-09
Total HpCDD	80.5		3.228E-08	3.228E-08
2,3,7,8-TCDF	8.6		3.449E-09	3.449E-09
1,2,3,7,8-PeCDF	ND	2.8	ND	ND
2,3,4,7,8-PeCDF	ND	2.8	ND	ND
1,2,3,4,7,8-HxCDF	4.7		1.885E-09	1.885E-09
1,2,3,6,7,8-HxCDF	ND	2.6	ND	ND
2,3,4,6,7,8-HxCDF	ND	3.3	ND	ND
1,2,3,7,8,9-HxCDF	ND	3.6	ND	ND
1,2,3,4,6,7,8-HpCDF	ND	3.6	ND	ND
1,2,3,4,7,8,9-HpCDF	ND	5.1	ND	ND
1,2,3,4,6,7,8,9-OCDF	ND		ND	ND
Total TCDF	8.6		3.449E-09	3.449E-09
Total PeCDF	ND	2.8	ND	ND
Total HxCDF	4.7		1.885E-09	1.885E-09
Total HpCDF	9.2		3.689E-09	3.689E-09
Dioxin TEQ (b)	1.932		7.748E-10	7.748E-10

a

All data presented was outside the laboratory calibration range and is considered an estimate only.

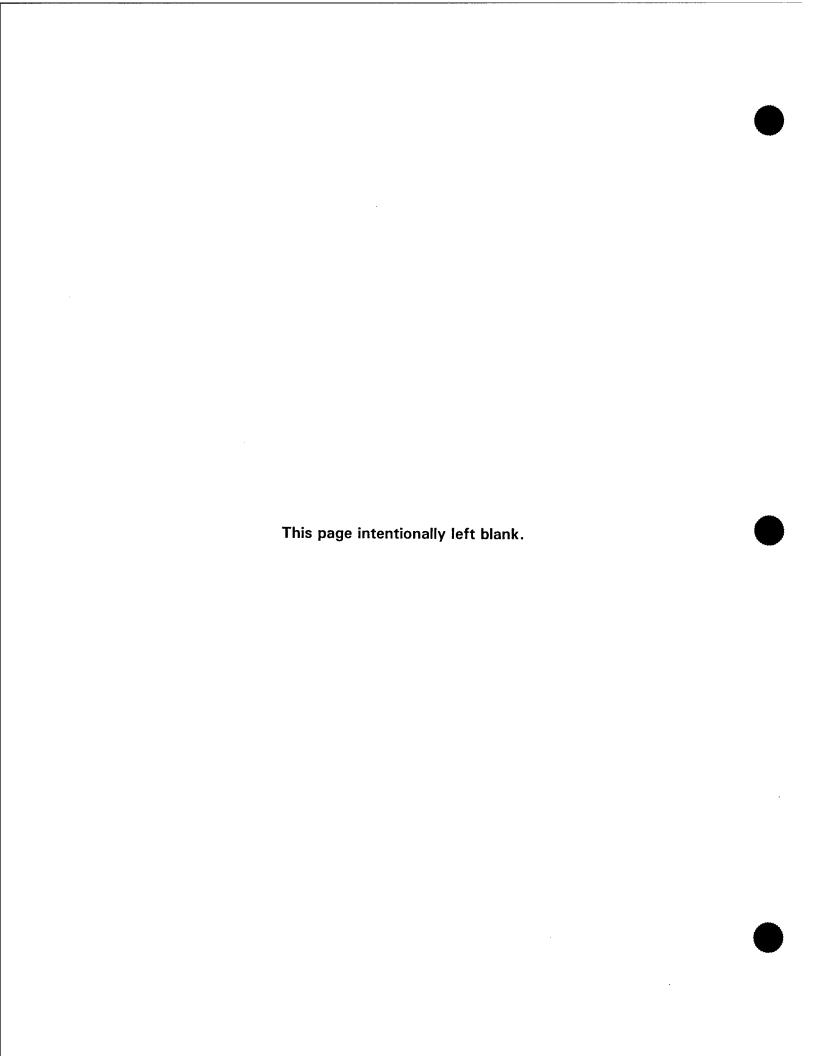
TABLE H-4. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANKPolychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected via PUF/XAD/rinsate according to EPA Compendium Method TO-9 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Triangle Laboratories, Inc.

	Background -	Background -	Background - Concentration,	Reagent Blank - Amount	Reagent Blank - Detection Limit.	Field Blank -	Field Blank -
Analyte (a)	Detected, pg	pg	mg/m³	Detected, pg	pg	Detected, pg	pg
2,3,7,8-TCDD	ND	6.3	ND	ND	1.5	QN	1.4
1,2,3,7,8-PeCDD	QN	11.5	ND	QN	2.9	QN	2.4
1,2,3,4,7,8-HxCDD	QN	24.1	QN	ΩN	3.8	Q	4
1,2,3,6,7,8-HxCDD	QN	.18.9	ND	ND	3	ND	3.2
1,2,3,7,8,9-HxCDD	QN	19.6	QN	ΩN	3.1	QN	3.3
1,2,3,4,6,7,8-HpCDD	QN	30.1	ND	QN	4	QN	5.6
1,2,3,4,6,7,8,9-OCDD	DN	43.9	ND	15.7		18.1	
Total TCDD	QN	6.3	QN	QN	1.5	QN	1.4
Total PeCDD	ON	11.5	ND	QN	2.9	ON	2.4
Total HxCDD	QN	20.6	ND	QN	3.2	QN	3.5
Total HpCDD	QN	30.1	ND	QN	4	QN	5.6
2,3,7,8-TCDF	ND	5.4	QN	6.1		4.6	
1,2,3,7,8-PeCDF	QN	9.1	ND	QN	2.2	QN	1.7
2,3,4,7,8-PeCDF	QN	9.4	ND	QN	2.3	QN	1.8
1,2,3,4,7,8-HxCDF	QN	13.8	ND	5.6		ON	2.5
1,2,3,6,7,8-HxCDF	ND	11.1	ND	QN	1.9	ND	2
2,3,4,6,7,8-HxCDF	ND	14.1	ND	ND	2.4	ND	2.5
1,2,3,7,8,9-HxCDF	ND	16	ND	QN	2.7	ON	2.9
1,2,3,4,6,7,8-HpCDF	ND	17.8	ND	QN	2.6	ND	3.4
1,2,3,4,7,8,9-HpCDF	ND	22.9	ND	QN	3.4	ND	4.4
1,2,3,4,6,7,8,9-OCDF	QN	35.3	ND	QN	4	QN	6.5
Total TCDF	ND	5.4	ND	6.1		4.6	
Total PeCDF	QN	9.5	ND	QN	2.2	QN	
Total HxCDF	QN	13.5	ND	5.6		ND	2.4
Total HpCDF	ND	20	ND	ND	3	ON	3.8

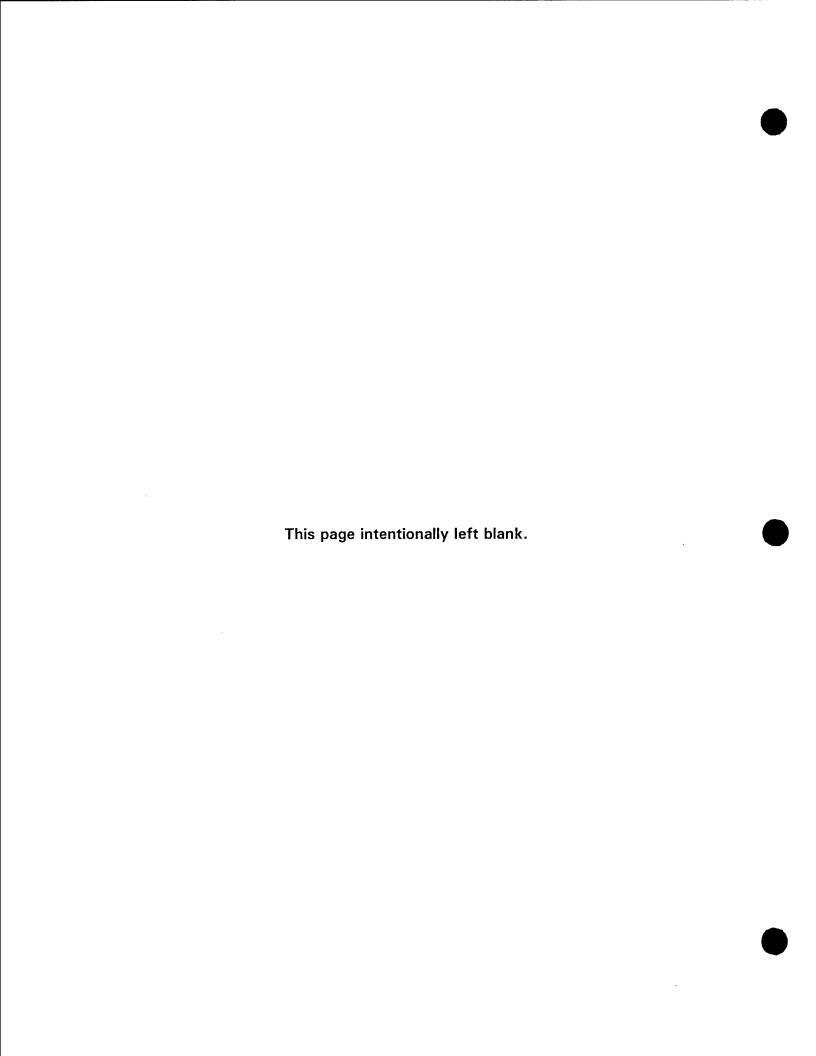
TABLE H-4. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

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All data presented was outside the laboratory calibration range and is considered an estimate only.



GREEN STAR CLUSTER



Polychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected via PUF/XAD/rinsate according to EPA Compendium Method TO-9 Compounds below the DLs are listed as nondetected (ND) TABLE H-1. AEC - RUN NO. 1 GS TEST (31 MARCH 1998)

Analyzed by: Triangle Laboratories, Inc.

Average Concentration - Run 1, mg/m ³	ON	QN	S	QN	QN	QN	1.226E-08	QN	QN	QN	2	2.542E-09	QV	QN	QV	QV	Q	QN	QN	QN	QN	2.542E-09	QN	N	QN
Run 1 Train B - Concentration, mg/m³	QN	QN	Q.	QN	QN	QN	1.226E-08	QN	Q	QN	Q	2.542E-09	QN	QN	QN	QN	QN	QN	QN	QN	QN	2.542E-09	ND	QN	ND
Run 1 Train B -Detection Limit, pg	2.8	4	5.7	5.3	5.3	8.1		2.8	4	5.4	8.1		2.6	2.6	3.5	3.2	4	4.4	9.5	8	13.8		2.6	3.8	9.9
Run 1 Train B - Amount Detected, pg	ND	ΠN	QΝ	ΩN	QN	QN	38.1	QN	QN	QN	QN	7.9	QN	QN	QN	QN	QN	ON	QN	QN	QN	7.9	QN	QN	ND
Run 1 Train A - Concentration, mg/m³	QN	QN	ND	ND	QN	ND	ND	ND	ND	QN	QN	ND	ND	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	ON
Run 1 Train A -Detection Limit, pg	3.6	4.1	5.7	5.3	5.3	7.3		3.6	4.1	5.4	2.3	2.6	3.3	3.3	3.8	3.5	4.3	4.8	5.1	7.2	8.8	2.6	3.3	4	9
Run 1 Train A - Amount Detected, pg	QN	QN	QN	QN	ΩN	QN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ON
Analyte (a)	2,3,7,8-TCDD	1,2,3,7,8-PeCDD	1,2,3,4,7,8-HxCDD	1,2,3,6,7,8-HxCDD	1,2,3,7,8,9-HxCDD	1,2,3,4,6,7,8-HpCDD	1,2,3,4,6,7,8,9-OCDD	Total TCDD	Total PeCDD	Total HxCDD	Total HpCDD	2,3,7,8-TCDF	1,2,3,7,8-PeCDF	2,3,4,7,8-PeCDF	1,2,3,4,7,8-HxCDF	1,2,3,6,7,8-HxCDF	2,3,4,6,7,8-HxCDF	1,2,3,7,8,9-HxCDF	1,2,3,4,6,7,8-HpCDF	1,2,3,4,7,8,9-HpCDF	1,2,3,4,6,7,8,9-OCDF	Total TCDF	Total PeCDF	Total HxCDF	Total HpCDF

TABLE H-1. AEC - RUN NO. 1 GS TEST (31 MARCH 1998)

Polychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected via PUF/XAD/rinsate according to EPA Compendium Method TO-9

Compounds below the DLs are listed as nondetected (ND) Analyzed by: Triangle Laboratories, Inc.

	Run 1 Train A - Run Amount A -Do	- *	Run 1 Train Run 1 Train A - Run 1 Train B - Run 1 Train B - A - Detection Concentration, Amount B - Detection	Run 1 Train B - Amount	Run 1 Train B -Detection	Run 1 Train Run 1 Train B - B - Detection Concentration,	Average Concentration -
Analyte (a)	Detected, pg	Limit, pg	mg/m³	Detected, pg	Limit, pg	mg/m³	Run 1, mg/m³
Dioxin TEQ (b)	ND		ND	0.8281		2.664E-10	2.664E-10

All data presented was outside the laboratory calibration range and is considered an estimate only. b

TABLE H-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANKPolychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected via PUF/XAD/rinsate according to EPA Compendium Method TO-9
Compounds below the DLs are listed as nondetected (ND)
Analyzed by: Triangle Laboratories, Inc.

Analyte (a)	Background - Amount Detected, pg	Background - Detection Limit, pg	Background - Concentration, mg/m³	Reagent Blank - Amount Detected, pg	Reage	Field Blank - Amount Detected, pg	Field Blank - Detection Limit, pg
2,3,7,8-TCDD	ND	3	ND	ND	1.5	ND	1.4
1,2,3,7,8-PeCDD	ON	3.4	QN .	ND	2.9	QN	2.4
1,2,3,4,7,8-HxCDD	ND	4.6	ND	ND	3.8	DN	4
1,2,3,6,7,8-HxCDD	ND	4.3	ND	ND	3	ND	3.2
1,2,3,7,8,9-HxCDD	ND	4.3	ND	QN	3.1	ND	3.3
1,2,3,4,6,7,8-HpCDD	ND	5.6	QN	QN	4	QN	5.6
1,2,3,4,6,7,8,9-OCDD	QN		ND	15.7		18.1	
Total TCDD	QN	3	QN	QN	1.5	ND	1.4
Total PeCDD	QN	3.4	ND	ND	2.9	QN	2.4
Total HxCDD	QN	4.4	ND	ND	3.2	QN	3.5
Total HpCDD	ND	5.6	ND	ND	4	ND	5.6
2,3,7,8-TCDF	6.7		1.512E-09	6.1		4.6	
1,2,3,7,8-PeCDF	DN	2.8	ND	ND	2.2	QN	1.7
2,3,4,7,8-PeCDF	ND	2.8	QN	QN	2.3	ND	1.8
1,2,3,4,7,8-HxCDF	ND	3	ND	5.6		QN	2.5
1,2,3,6,7,8-HxCDF	ND	2.8	QN	ON ·	1.9	ND	2
2,3,4,6,7,8-HxCDF	DN	3.5	ND	ON	2.4	ND	2.5
1,2,3,7,8,9-HxCDF	ND	3.8	ND	ND	2.7	DN	2.9
1,2,3,4,6,7,8-HpCDF	ND	4	QN	ON	2.6	ND	3.4
1,2,3,4,7,8,9-HpCDF	ND	5.7	QN	ON	3.4	QN	4.4
1,2,3,4,6,7,8,9-OCDF	ND	6.7	ND	QN	4	QN	6.5
Total TCDF	6.7		1.512E-09	6.1		4.6	
Total PeCDF	ND	2.8	QN	QN	2.2	QN	
Total HxCDF	ND	3.2	ND	5.6		ON	2.4
Total HpCDF	QN	4.7	QN	QN	3	QN	3.8

TABLE H-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Analyzed by: Triangle Laboratories, Inc.

	Background - Amount	Background - Detection Limit,	ground - Background - ion Limit, Concentration,	Reagent Blank - Amount	Background - Reagent Blank - Reagent Blank - Concentration, Amount Detection Limit, Amount	Field Blank - Amount	Field Blank - Detection Limit,
Analyte (a)	Detected, pg	pg	mg/m³	Detected, pg	pg	Detected, pg	pg
Dioxin TEQ (b)	0.67		1.512E-10	1.1857		0.4781	

All data presented was outside the laboratory calibration range and is considered an estimate only. b

Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD

GREEN PARACHUTE SIGNAL FLARE

Polychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected via PUF/XAD/rinsate according to EPA Compendium Method TO-9 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Triangle Laboratories, Inc. TABLE H-1. AEC - RUN NO. 1 GP TEST (31 MARCH 1998)

Analyte (a)	Run 1 Train A - Amount Detected, pg	Run 1 Train A -Detection Limit, pg	Run 1 Train A - Concentration, mg/m³	Run 1 Train B - Amount Detected, pg	Run 1 Train B -Detection Limit, pg	Run 1 Train B - Concentration, mg/m³	Average Concentration - Run 1, mg/m³
2,3,7,8-TCDD	QN	2	QN	QN	1.5	QN	ND
1,2,3,7,8-PeCDD	QN	3.2	ON	ON	2.6	QN	QN
1,2,3,4,7,8-HxCDD	QN	6.3	QN	QN	4.6	ΩN	QN
1,2,3,6,7,8-HxCDD	QN	5	ND	ON	3.6	ND	QN
1,2,3,7,8,9-HxCDD	QN	5.2	ND	ON	3.7	QN	QN
1,2,3,4,6,7,8-HpCDD	DN	9.1	ND	ON	5.3	ND	QN
1,2,3,4,6,7,8,9-OCDD	23.3		7.766E-09	QN		QN	7.766E-09
Total TCDD	3.8		1.267E-09	DN	1.5	ND	1.267E-09
Total PeCDD	ND	3.2	ND	ΔN	2.6	QN	QN
Total HxCDD	ON	5.4	ND	QN	3.9	ND	QN
Total HpCDD	ND	9.1	ND	QN	5.3	ΩN	QN
2,3,7,8-TCDF	15.3		5.100E-09	13.7		5.165E-09	5.132E-09
1,2,3,7,8-PeCDF	Ω	2.4	ND	QN	1.8	QN	QN
2,3,4,7,8-PeCDF	5.9		1.967E-09	ND	1.9	ND	1.967E-09
1,2,3,4,7,8-HxCDF	11		3.666E-09	ND	2.6	ND	3.666E-09
1,2,3,6,7,8-HxCDF	4.8		1.600E-09	QN	2.1	ND	1.600E-09
2,3,4,6,7,8-HxCDF	5.4		1.800E-09	ND	2.6	ND	1.800E-09
1,2,3,7,8,9-HxCDF	ND	4.3	ND	DN	3	ND	ON
1,2,3,4,6,7,8-HpCDF	10.6		3.533E-09	QN		ON	3.533E-09
1,2,3,4,7,8,9-HpCDF	ND	7	ND	QN	4.2	ON	QN
1,2,3,4,6,7,8,9-OCDF	ND	11.1	ND	ND	5.4	ND	QN
Total TCDF	45.1		1.503E-08	19.9		7.502E-09	1.127E-08
Total PeCDF	39.9		1.330E-08	21.5		8.106E-09	1.070E-08
Total HxCDF	38.4		1.280E-08	QN	2.5	QN	1.280E-08
Total HpCDF	10.6		3.533E-09	ND		QN	3.533E-09

TABLE H-1. AEC - RUN NO. 1 GP TEST (31 MARCH 1998)

Polychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected via PUF/XAD/rinsate according to EPA Compendium Method TO-9

Compounds below the DLs are listed as nondetected (ND)

Analyzed by: Triangle Laboratories, Inc.

	Run 1 Train A - Run	. . .	Train Run 1 Train A - Run 1 Train B - Run 1 Train B - Concentration.	Run 1 Train B -	Run 1 Train	Run 1 Train Run 1 Train B -	Average Concentration -
Analyte (a)	g	Limit, pg	mg/m³		Limit, pg	mg/m³	Run 1, mg/m³
Dioxin TEQ (b)	6.7293		2.243E-09	1.37		5.165E-10	1.380E-09

a All data presented was outside the laboratory calibration range and is considered an estimate only.

Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD

TABLE H-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Polychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected via PUF/XAD/rinsate according to EPA Compendium Method TO-9 Compounds below the DLs are listed as nondetected (ND)

Analyzed by: Triangle Laboratories, Inc.

		Background - Detection Limit,	Background -	Reagent Blank - Amount	Reagent Blank - Detection Limit,	Field Blank - Amount	Field Blank - Detection Limit,
Analyte (a)	Verected, pg	6		Derected, pg	ሥ ዓ	Perecisa, pg	7
2,3,7,9-1000 1 2 3 7 8-PeCDD	Q Q	3.4	Q	2	2.9	Q.	2.4
1.2.3.4.7.8-HxCDD	2	4.6	QN	QN	3.8	QN	4
1,2,3,6,7,8-HxCDD	S	4.3	QN	QN	3	QN	3.2
1,2,3,7,8,9-HxCDD	S	4.3	Q.	QN	3.1	ND	3.3
1,2,3,4,6,7,8-HpCDD	QN	5.6	Q	QN	4	ON	5.6
1,2,3,4,6,7,8,9-OCDD	Ð		QN	15.7		18.1	
Total TCDD	QN	3	QN	QN	1.5	ND	1.4
Total PeCDD	QN	3.4	QN	QN	5.9	ON	2.4
Total HxCDD	QV	4.4	QN	ΩN	3.2	ND	3.5
Total HpCDD	QN	5.6	QN	QN	4	ND	5.6
2,3,7,8-TCDF	6.7		1.512E-09	6.1		4.6	
1,2,3,7,8-PeCDF	QN	2.8	QN	QN	2.2	ON	1.7
2,3,4,7,8-PeCDF	QN	2.8	QN	QΝ	2.3	ND	1.8
1,2,3,4,7,8-HxCDF	QN	3	QN	5.6		ND	2.5
1,2,3,6,7,8-HxCDF	QN	2.8	ΩN	QΝ	1.9	ND	2
2,3,4,6,7,8-HxCDF	QN	3.5	QN	QN	2.4	ND	2.5
1,2,3,7,8,9-HxCDF	QN	3.8	QN	QN	2.7	ND	2.9
1,2,3,4,6,7,8-HpCDF	QN	4	QN	ΠN	2.6	ND	3.4
1,2,3,4,7,8,9-HpCDF	ND	5.7	QN	QN	3.4	ON	4.4
1,2,3,4,6,7,8,9-OCDF	QN	6.7	QN	QN	4	ND	6.5
Total TCDF	6.7		1.512E-09	6.1		4.6	
Total PeCDF	QN	2.8	QN	QN	2.2	ND	
Total HxCDF	QN	3.2	QN	9.5		ND	2.4
Total HpCDF	QN	4.7	QN	QN	3	ON	3.8

TABLE H-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Polychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected via PUF/XAD/rinsate according to EPA Compendium Method TO-9 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Triangle Laboratories, Inc.

	Background - Amount	Back Detect	ground - Background - tion Limit, Concentration,		Reagent Blank - Reagent Blank - Amount Detection Limit, Amount	Field Blank -	Field Blank - Detection Limit,
Analyte (a)	Detected, pg	bd	"m/ßm	Detected, pg	pg	Detected, pg	bd
Dioxin TEQ (a)	0.67		1.512E-10	1.1857		0.4781	

All data presented was outside the laboratory calibration range and is considered an estimate only. b

Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD

WHITE PARACHUTE SIGNAL FLARE

Polychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected via PUF/XAD/rinsate according to EPA Compendium Method TO-9 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Triangle Laboratories, Inc. **TABLE H-1. AEC - RUN NO. 1 WP TEST (1 APRIL 1998)**

Analyte (a)	Run 1 Train A - Amount Detected, pg	Run 1 Train A -Detection Limit, pg	Run 1 Train A - Concentration, mg/m³	Run 1 Train B - Amount Detected, pg	Run 1 Train B -Detection Limit, pg	Run 1 Train B - Concentration, mg/m³	Average Concentration - Run 1, mg/m³
2,3,7,8-TCDD	QN	1.3	ON	QN	2.5	ON	QN
1,2,3,7,8-PeCDD	ND	2.2	QN	QN	4	ND	QN
1,2,3,4,7,8-HxCDD	QN	7	ND	ΩN	7.2	ND	QN
1,2,3,6,7,8-HxCDD	QN	3.1	ND	ON	5.7	ND	QN
1,2,3,7,8,9-HxCDD	QN	3.2	ND	QN	5.9	ND	QN
1,2,3,4,6,7,8-HpCDD	7.7		3.600E-09	QN	10.3	QN	3.600E-09
1,2,3,4,6,7,8,9-OCDD	32.2		1.505E-08	25.1		1.207E-08	1.356E-08
Total TCDD	QN	1.3	ND	QN	2.5	ND	QN
Total PeCDD	DN	2.2	ND	QN	4	ND	QN
Total HxCDD	ON	3.4	ND	QN	6.2	ND	ND
Total HpCDD	15.4		7.199E-09	QN	10.3	ON	7.199E-09
2,3,7,8-TCDF	6.8		3.179E-09	6.8		3.269E-09	3.224E-09
1,2,3,7,8-PeCDF	QN	1.7	DN	QN	3.3	ND	QN
2,3,4,7,8-PeCDF	QN	1.8	ND	QN	3.4	ND	QN
1,2,3,4,7,8-HxCDF	6.3		2.945E-09	QN	4.7	ND	2.945E-09
1,2,3,6,7,8-HxCDF	ON		ND	QN	3.8	ON	QN
2,3,4,6,7,8-HxCDF	ND	2.4	ND	QN	4.8	QN	QN
1,2,3,7,8,9-HxCDF	DN	2.7	ND	ON	5.4	ND	ND
1,2,3,4,6,7,8-HpCDF	ND	3.2	ND	QN	6.3	ND	QN
1,2,3,4,7,8,9-HpCDF	ND	4.2	ND	QN	8.1	ON	ND
1,2,3,4,6,7,8,9-OCDF	ND	5.3	ND	QN	10.7	ND	ND
Total TCDF	6.8		3.179E-09	6.8		3.269E-09	3.224E-09
Total PeCDF	ND	1.8	ND	DN		ND	ND
Total HxCDF	9.2		4.301E-09	QN	4.6	ND	4.301E-09
Total HpCDF	QN	3.6	QN	QN	7.1	QN	ND

TABLE H-1. AEC - RUN NO. 1 WP TEST (1 APRIL 1998)

Polychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected via PUF/XAD/rinsate according to EPA Compendium Method TO-9 Compounds below the DLs are listed as nondetected (ND)

Analyzed by: Triangle Laboratories, Inc.

	Run 1 Train A - Run	·-	Train Run 1 Train A - Run 1 Train B - Run 1 Train Run 1 Train B -	Run 1 Train B -	Run 1 Train	Run 1 Train B -	Average
	Amount	A -Detection	ection Concentration,	Amonut	B -Detection	Amount B -Detection Concentration,	Concentration -
Analyte (a)	Detected, pg	Limit, pg	mg/m³	Detected, pg	Limit, pg	mg/m³	Run 1, mg/m³
Dioxin TEQ (b)	1.4192		6.635E-10	0.7051		3.390E-10	5.012E-10

All data presented was outside the laboratory calibration range and is considered an estimate only.

Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD

TABLE H-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANKPolychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected via PUF/XAD/rinsate according to EPA Compendium Method TO-9
Compounds below the DLs are listed as nondetected (ND)

Analyzed by: Triangle Laboratories, Inc.

	Background -	Background -	Background -	Reagent Blank -	Reagent Blank -	Field Blank -	Field Blank -
Analyte (a)	Amount Detected, pg	Detection Limit,	mg/m³	Amount Detected, pg	Detection Limit,	Amount Detected, pg	Detection Limit, Pg
2,3,7,8-TCDD	QN	3	QN	QN	1.5	ND	1.4
1,2,3,7,8-PeCDD	ND	3.4	QN	QN	2.9	ON	2.4
1,2,3,4,7,8-HxCDD	ND	4.6	QN	QN	3.8	ON	4
1,2,3,6,7,8-HxCDD	ND	4.3	QN	QN	3	QN	3.2
1,2,3,7,8,9-HxCDD	ND	4.3	QN	QN	3.1	ON	3.3
1,2,3,4,6,7,8-HpCDD	ND	9.6	ND	QN	4	QN	5.6
1,2,3,4,6,7,8,9-OCDD	ND		QN	15.7		18.1	
Total TCDD	ND	3	ND	QN	1.5	QN	1.4
Total PeCDD	ND	3.4	QN	QN	2.9	QN	2.4
Total HxCDD	ND	4.4	QN	ND	3.2	QN	3.5
Total HpCDD	ND	5.6	QN	ON	4	QN	5.6
2,3,7,8-TCDF	6.7		1.512E-09	6.1		4.6	
1,2,3,7,8-PeCDF	QN	2.8	QN	ND	2.2	ON	1.7
2,3,4,7,8-PeCDF	ND	2.8	QN	QN	2.3	ND	1.8
1,2,3,4,7,8-HxCDF	ND	3	QN	5.6		QN	2.5
1,2,3,6,7,8-HxCDF	ND	2.8	QN	QN	1.9	ND	2
2,3,4,6,7,8-HxCDF	ND	3.5	QN	ND	2.4	ND	2.5
1,2,3,7,8,9-HxCDF	ΩN	3.8	QN	ND	2.7	ND	2.9
1,2,3,4,6,7,8-HpCDF	QN	4	QN	ND	2.6	ND	3.4
1,2,3,4,7,8,9-HpCDF	ND	5.7	QN	QN	3.4	ND	4.4
1,2,3,4,6,7,8,9-OCDF	ND	6.7	QN	ND	4	ND	6.5
Total TCDF	6.7		1.512E-09	6.1		4.6	
Total PeCDF	QN	2.8	QN	Q	2.2	QV	
Total HxCDF	ND	3.2	QN	5.6		ND	2.4
Total HpCDF	ΩN	4.7	QN	QN	3	ND	3.8

TABLE H-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Polychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected via PUF/XAD/rinsate according to EPA Compendium Method TO-9 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Triangle Laboratories, Inc.

	Background - Amount	Background - Detection Limit,	kground - Background - stion Limit, Concentration,	Reagent Blank - Amount	Background - Reagent Blank - Reagent Blank - Concentration, Amount Detection Limit,	Field Blank - Amount	Field Blank - Detection Limit,
Analyte (a)	Detected, pg	bd	mg/m³	Detected, pg	bd	Detected, pg	bd
Dioxin TEQ (b)	0.67		1.512E-10	1.1857		0.4781	

All data presented was outside the laboratory calibration range and is considered an estimate only.

Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD

155 MM ILLUMINATION ROUND

TABLE H-1. AEC - RUN NO. 1 IR TEST (1 APRIL 1998)

Polychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected via PUF/XAD/rinsate according to EPA Compendium Method TO-9 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Triangle Laboratories, Inc.

Analyte (a)	Run 1 Train A - Amount Detected, pg	Run 1 Train A -Detection Limit, pg	Run 1 Train A - Concentration, mg/m³	Run 1 Train B - Amount Detected, pg	Run 1 Train B -Detection Limit, pg	Run 1 Train B - Concentration, mg/m³	Average Concentration - Run.1, mg/m³
2,3,7,8-TCDD	QN	12.3	QN	QN	1.4	QN	QN
1,2,3,7,8-PeCDD	QN	16.2	ND	QN	2.3	QN	QN
1,2,3,4,7,8-HxCDD	QN	22.7	ND	QN	4.1	QN	QN
1,2,3,6,7,8-HxCDD	ND	17.8	ND	QN	3.2	ND	QN
1,2,3,7,8,9-HxCDD	QN	18.5	ND	QN	3.4	QN	QN
1,2,3,4,6,7,8-HpCDD	ND	26.5	ND	39.5		1.072E-07	1.072E-07
1,2,3,4,6,7,8,9-OCDD	213		5.415E-07	198		5.375E-07	5.395E-07
Total TCDD	ND	12.3	ND	QN	1.4	QN	QN
Total PeCDD	ON	16.2	ND	QN	2.3	QN	QN
Total HxCDD	ON	19.4	ND	21.6		80-3E98'S	5.863E-08
Total HpCDD	ND	26.5	ND	68.2		1.851E-07	1.851E-07
2,3,7,8-TCDF	ND	9.2	ND	10		2.714E-08	2.714E-08
1,2,3,7,8-PeCDF	ND	13.3	ND	ND	1.7	QN	QN
2,3,4,7,8-PeCDF	ND	13.7	ND	ND	1.7	QN	ON
1,2,3,4,7,8-HxCDF	ND	13.1	ND	8.4		2.280E-08	2.280E-08
1,2,3,6,7,8-HxCDF	ND	10.6	ND	ND	2.1	ND	ON
2,3,4,6,7,8-HxCDF	ND	13.4	ND	ND	2.7	ND	QN
1,2,3,7,8,9-HxCDF	ND	15.2	ND	ND	3.1	ND	ND
1,2,3,4,6,7,8-HpCDF	ND	15.5	ND	8.9		2.416E-08	2.416E-08
1,2,3,4,7,8,9-HpCDF	ND	20	QN	QN	4.5	ND	QN
1,2,3,4,6,7,8,9-OCDF	ND	24.9	QN	ON	7	ND	ON
Total TCDF	ND	9.2	ND	17.3		4.696E-08	4.696E-08
Total PeCDF	ND	13.5	ND	7.8		2.117E-08	2.117E-08
Total HxCDF	ND	12.9	ND	17.3		4.696E-08	4.696E-08
Total HpCDF	ND	17.5	QN	8.9		2.416E-08	2.416E-08

TABLE H-1. AEC - RUN NO. 1 IR TEST (1 APRIL 1998)

Polychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected via PUF/XAD/rinsate according to EPA Compendium Method TO-9

Compounds below the DLs are listed as nondetected (ND)

Analyzed by: Triangle Laboratories, Inc.

	Run 1 Train A - Run 1		Frain Run 1 Train A - Run 1 Train B - Run 1 Train Run 1 Train B	Run 1 Train B -	Run 1 Train	Run 1 Train B -	Average
	Amount	A -Detection	A -Detection Concentration,	Amount	B -Detection	B -Detection Concentration,	Concentration -
Analyte (a)	Detected, pg	Limit, pg	mg/m³	Detected, pg	Limit, pg	mg/m³	Run 1, mg/m³
Dioxin TEQ (b)	0.213		5.415E-10	2.522		6.846E-09	3.694E-09

All data presented was outside the laboratory calibration range and is an estimate only.

Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD

TABLE H-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANKPolychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected

Polychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected via PUF/XAD/rinsate according to EPA Compendium Method TO-9 Compounds below the DLs are listed as nondetected (ND) Analyzed by: Triangle Laboratories, Inc.

	Background -	Background -	Background -	Reagent Blank -	Reagent Blank -	Field Blank-	Field Blank -
Analyte (a)	Amount Detected, pg	Detection Limit, pg	Concentration, mg/m³	Amount Detected, pg	Detection Limit, pg	Amount Detected, pg	Detection Limit, pg
2,3,7,8-TCDD	QN	1.5	ON	QN	1.5	QN	1.4
1,2,3,7,8-PeCDD	ND	3	QN	ND	2.9	ND	2.4
1,2,3,4,7,8-HxCDD	ND	6.5	ND	ND	3.8	QN	4
1,2,3,6,7,8-HxCDD	ND	5.1	ND	ND	3	QN	3.2
1,2,3,7,8,9-HxCDD	QN	5.3	ND	ND	3.1	QN	3.3
1,2,3,4,6,7,8-HpCDD	QN	6	QN	QN	4	ND	5.6
1,2,3,4,6,7,8,9-OCDD	23.8		7.456E-09	15.7		18.1	
Total TCDD	ND	1.5	QN	ND	1.5	ND	1.4
Total PeCDD	ND	3	QN	ND	2.9	ON	2.4
Total HxCDD	QN	5.6	DN	ND	3.2	ND	3.5
Total HpCDD	dΝ	6	QN	ND	4	ND	5.6
2,3,7,8-TCDF	4.5		1.410E-09	6.1		4.6	
1,2,3,7,8-PeCDF	QN	1.9	ND	ND	2.2	QN	1.7
2,3,4,7,8-PeCDF	ΩN	2	QN	QN	2.3	ND	1.8
1,2,3,4,7,8-HxCDF	DN	3.5	QN	5.6		ND	2.5
1,2,3,6,7,8-HxCDF	ND	2.8	QN	DN	1.9	ND	2
2,3,4,6,7,8-HxCDF	QN	3.5	QN	QN	2.4	ON	2.5
1,2,3,7,8,9-HxCDF	ND	4	ND	ND	2.7	ND	2.9
1,2,3,4,6,7,8-HpCDF	ND	4.6	QN	ND	2.6	ND	3.4
1,2,3,4,7,8,9-HpCDF	ND	5.9	QN	ND	3.4	ND	4.4
1,2,3,4,6,7,8,9-OCDF	QN	8.3	ND	ND	4	ND	6.5
Total TCDF	4.5		1.410E-09	6.1		4.6	
Total PeCDF	QN	1.9	QN	ND	2.2	ON	
Total HxCDF	ND	3.4	ND	5.6		ND	2.4
Total HpCDF	QN	5.2	ON	QN	3	QN	3.8

TABLE H-2. AEC - BACKGROUND, REAGENT BLANK, AND FIELD BLANK

Polychlorinated Dibenzo-p-Dioxins and Dibenzofurans by Method 8290; samples collected via PUF/XAD/rinsate according to EPA Compendium Method TO-9 Compounds below the DLs are listed as nondetected (ND)

Analyzed by: Triangle Laboratories, Inc.

							-
	Background - Amount	Background - Detection Limit,	kground - Background -	Reagent Blank - Amount	Background - Reagent Blank - Reagent Blank - Field Blank - Concentration, Amount Detection Limit, Amount	Field Blank - Amount	Field Blank - Detection Limit,
Analyte (a)	Detected, pg	bd	mg/m³	Detected, pg	pg	Detected, pg	bd
Dioxin TEQ (b)	0.4738		1.484E-10	1.1857		0.4781	

All data presented was outside the laboratory calibration range and is an estimate only. b

Total detected PCDD and PCDF isomers as 2,3,7,8-TCDD

APPENDIX II-I. CEM DATA RESULTS

SIMULATOR BOOBY TRAP FLASH M117

TABLE I-1. AEC - BT TEST (28 MARCH 1998)

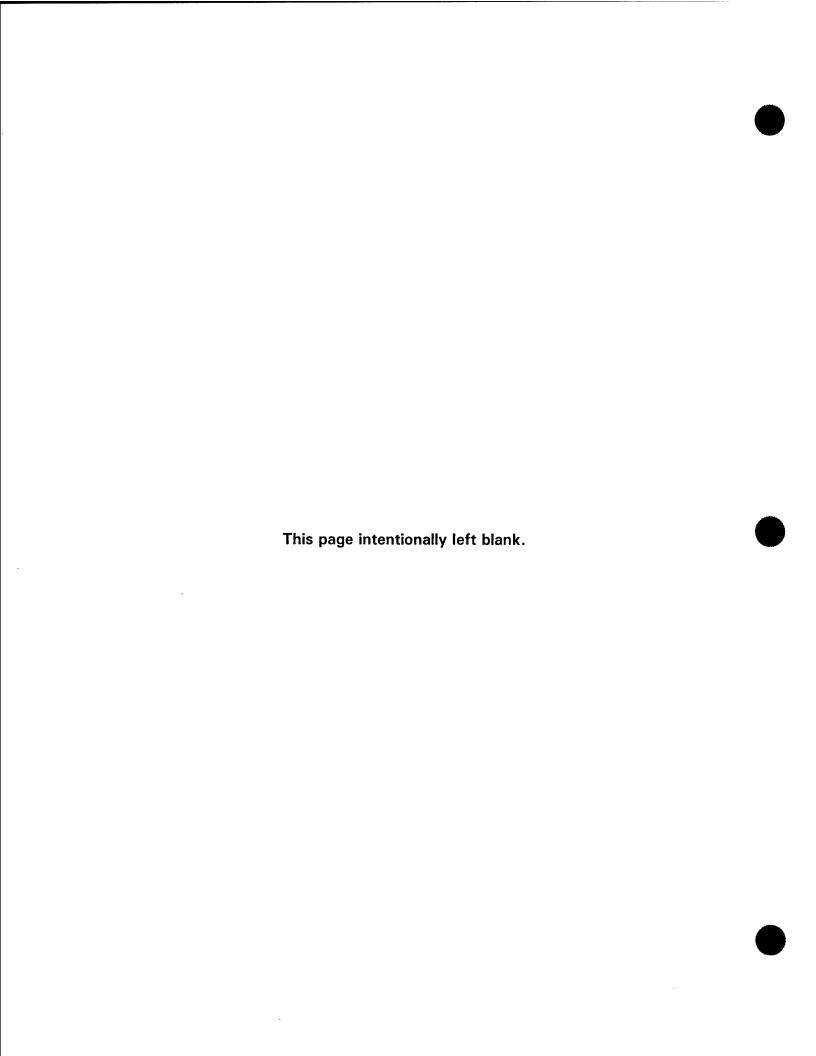
Real-time measurement of CO, CO₂, NO_x, SO₂, and HCI; sample collected via 40 CFR 60 Appendix A Method 10, 40 CFR 60 Appendix A Method 3A, 40 CFR 60 Appendix A Method 7E, and 40 CFR 60 Appendix A Method 10, respectively

Analyzed: 40 CFR 50 Appendix C, 40 CFR 60 Appendix A Method 3A, 40 CFR 50 Appendix F, and 40 CFR 50 Appendix A

Sample	Pollutant	Background Concentration, ppmv	Test Concentration, ppmv	Concentration,
BT-Background	CO	NA	0.01905	1.905E+01
BT-Background	CO ₂	NA	368.16160	3.682E+05
BT-Background	NO	NA	0.00064	6.360E-01
BT-Background	NO ₂	NA	0.01094	1.094E+01
BT-Background	NO _x	NA	0.02079	2.079E+01
BT-Background	SO ₂	NA	0.00570	5.704E+00
BT-Background	HCI	NA	-0.19753	-1.975E+02
BT Run No. 1	CO	0.12042	0.616384	6.164E+02
BT Run No. 1	CO ₂	387.8258	386.8354	3.868E+05
BT Run No. 1	NO	0.001202	0.224734	2.247E+02
BT Run No. 1	NO ₂	0.01453	0.027722	2.772E+01
BT Run No. 1	NO _x	0.00972	0.258861	2.589E+02
BT Run No. 1	SO ₂	0.000600075	1.589753	1.590E+03
BT Run No. 1	HCI	-0.026382	-0.033171	-3.317E+01

AEC = Army Environmental Center

BT = Booby Trap Flash



SIMULATOR FLASH ARTILLERY M110

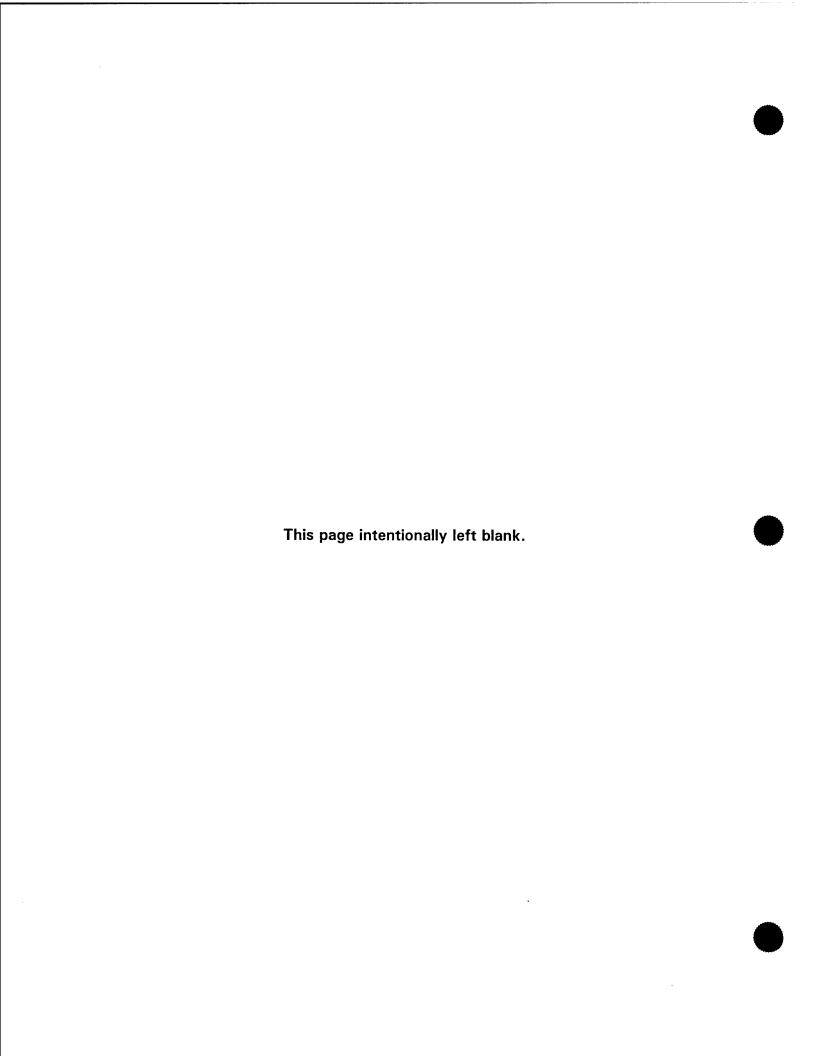
TABLE I-1. AEC - FA TEST (28 MARCH 1998)

Real-time measurement of CO, CO₂, NO_x, SO₂, and HCl; sample collected via 40 CFR 60 Appendix A Method 10, 40 CFR 60 Appendix A Method 3A, 40 CFR 60 Appendix A Method 7E, and 40 CFR 60 Appendix A Method 10, respectively

Analyzed: 40 CFR 50 Appendix C, 40 CFR 60 Appendix A Method 3A, 40 CFR 50 Appendix F, and 40 CFR 50 Appendix A

Property of the second of the	Pollutant	Background Concentration, ppmv	Test Concentration, ppmv	Concentration, ppbv
FA-Background	CO	NA	0.160654	1.607E+02
FA-Background	CO ₂	NA	378.1061	3.781E+05
FA-Background	NO	NA	0.000836	8.360E-01
FA-Background	NO ₂	NA	0.010815	1.082E+01
FA-Background	NO _x	NA	0.021042	2.104E+01
FA-Background	SO₂	NA	0.000497014	4.970E-01
FA-Background	HCI	NA	-0.006066	-6.066E+00
FA Run No. 1	CO	0.118883	2.538847	2.539E+03
FA Run No. 1	CO ₂	372.716	405.6876	4.057E+05
FA Run No. 1	NO	0.0008	0.276371	2.764E+02
FA Run No. 1	NO ₂	0.010956	0.05743	5.743E+01
FA Run No. 1	NO_x	0.021239	0.344923	3.449E+02
FA Run No. 1	SO₂	0.000068844	0.02131479	2.131E+01
FA Run No. 1	HCI	-0.031263	-0.070619	-7.062E+01
FA Run No. 2	CO	0.115893	1.7954	1.795E+03
FA Run No. 2	CO ₂	370.5705	438.5098	4.385E+05
FA Run No. 2	NO	0.000559	0.337334	3.373E+02
FA Run No. 2	NO ₂	0.011086	0.07747	7.747E+01
FA Run No. 2	NO _x	0.021198	0.425901	4.259E+02
FA Run No. 2	SO ₂	-0.000162863	0.02040783	2.041E+01
FA Run No. 2	HCI	-0.108875	-0.102343	-1.023E+02

AEC = Army Environmental Center FA = Simulator Flash Artillery



SIMULATOR HAND GRENADE

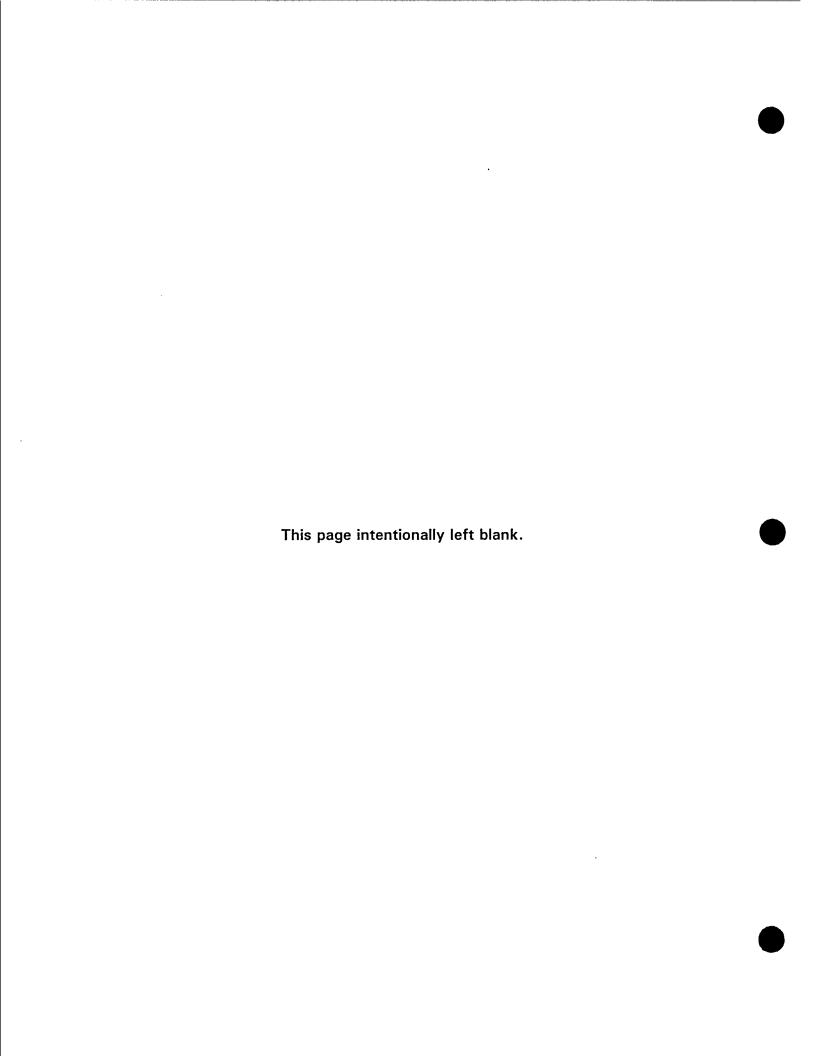


TABLE I-1. AEC - HG TEST (30 MARCH 1998)

Real-time measurement of CO, CO_2 , NO_x , SO_2 , and HCI; sample collected via 40 CFR 60 Appendix A Method 10, 40 CFR 60 Appendix A Method 3A, 40 CFR 60 Appendix A Method 7E, and 40 CFR 60 Appendix A Method 10, respectively

Analyzed: 40 CFR 50 Appendix C, 40 CFR 60 Appendix A Method 3A, 40 CFR 50 Appendix F, and 40 CFR 50 Appendix A

Sample	Pollutant	Background Concentration, ppmv	Test Concentration,	Concentration, ppby
HG - Background	CO	NA	0.124298	1.243E+02
HG - Background	CO ₂	NA	369.9217	3.699E+05
HG - Background	NO	NA	0.000672	6.720E-01
HG - Background	NO ₂	NA	0.010107	1.011E+01
HG - Background	NO _x	NA	0.020999	2.100E+01
HG - Background	SO₂	NA	0.000005878	5.878E-03
HG - Background	HCI	NA	0.343946	3.439E+02
HG Run No. 1	CO	0.019335	0.389655	3.897E+02
HG Run No. 1	CO ₂	373.1109	373.9272	3.739E+05
HG Run No. 1	NO	0.00097.	2.929431	2.929E+03
HG Run No. 1	NO ₂	0.009562	0.090772	9.077E+01
HG Run No. 1	NO _x	0.020511	3.035694	3.036E+03
HG Run No. 1	SO ₂	-0.000346882	0.375232	3.752E+02
HG Run No. 1	HCI	0.582195	0.566555	5.666E+02
HG Run No. 2	CO	0.008047	0.27504	2.750E+02
HG Run No. 2	CO ₂	377.3065	382.9329	3.829E+05
HG Run No. 2	NO	0.015869	5.121771	5.122E+03
HG Run No. 2	NO ₂	0.008838	0.179643	1.796E+02
HG Run No. 2	NO _x	0.034465	5.320853	5.321E+03
HG Run No. 2	SO₂	-0.00101043	0.1092788	1.093E+02
HG Run No. 2	HCI	0.318236	-0.525452	-5.255E+02

AEC = Army Environmental Center HG = Simulator Hand Grenade

SIMULATOR GROUND BURST

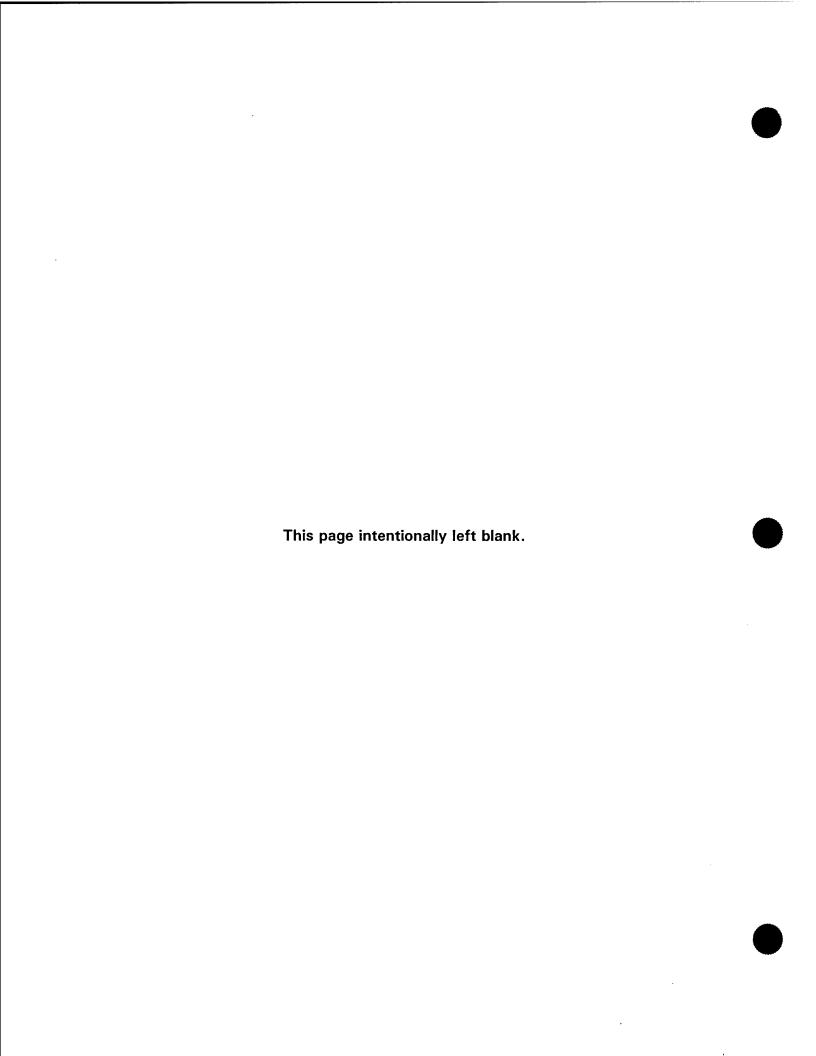
TABLE I-1. AEC - GB TEST (30 MARCH 1998)

Real-time measurement of CO, CO_2 , NO_x , SO_2 , and HCl; sample collected via 40 CFR 60 Appendix A Method 10, 40 CFR 60 Appendix A Method 3A, 40 CFR 60 Appendix A Method 7E, and 40 CFR 60 Appendix A Method 10, respectively

Analyzed: 40 CFR 50 Appendix C, 40 CFR 60 Appendix A Method 3A, 40 CFR 50 Appendix F, and 40 CFR 50 Appendix A

And Angeles Sample	Pollutant	Background Concentration, ppmv	Test Concentration, ppmv	Concentration,
HG - Background	CO	NA	0.124298	1.243E+02
HG - Background	CO ₂	NA	369.9217	3.699E+05
HG - Background	NO	NA	0.000672	6.720E-01
HG - Background	NO ₂	NA	0.010107	1.011E+01
HG - Background	NO _x	NA	0.020999	2.100E+01
HG - Background	SO ₂	NA	0.000005878	5.878E-03
HG - Background	HCI	NA	0.343946	3.439E+02
GB Run No. 1	CO	0.230679	1.427143	1.427E+03
GB Run No. 1	CO ₂	367.4535	369.7581	3.698E+05
GB Run No. 1	NO	0.000794	2.265131	2.265E+03
GB Run No. 1	NO ₂	0.010266	0.07512	7.512E+01
GB Run No. 1	NO _x	0.020769	2.352856	2.353E+03
GB Run No. 1	SO ₂	-0.01030488	0.04149491	4.149E+01
GB Run No. 1	HCI	-0.142175	-1.340773	-1.341E+03
GB Run No. 2	CO	0.107961	2.144911	2.145E+03
GB Run No. 2	CO ₂	369.2293	373.6055	3.736E+05
GB Run No. 2	NO	0.007131	2.741216	2.741E+03
GB Run No. 2	NO ₂	0.011184	0.088587	8.859E+01
GB Run No. 2	NO _x	0.028136	2.844788	2.845E+03
GB Run No. 2	SO₂	-0.001980136	0.04741902	4.742E+01
GB Run No. 2	HCI	0.249551	-1.113386	-1.113E+03

AEC = Army Environmental Center GB = Simulator Ground Burst



GREEN STAR CLUSTER

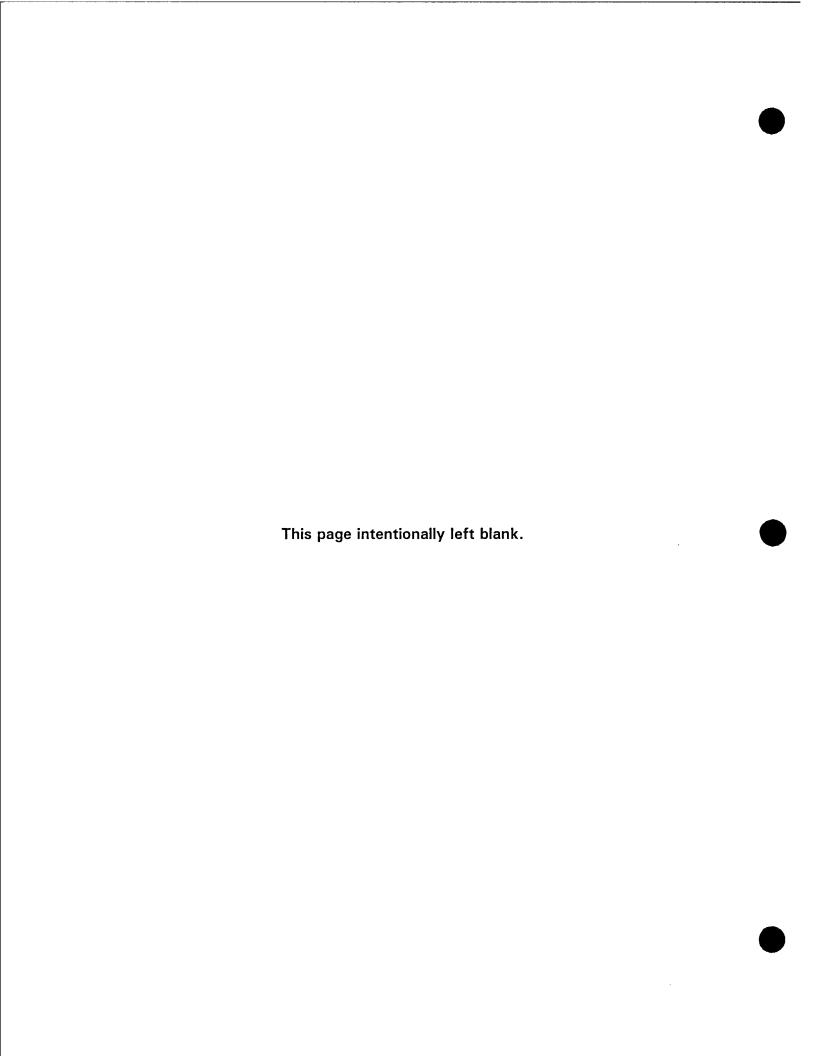


TABLE I-1. AEC - GS TEST (31 MARCH 1998)

Real-time measurement of CO, CO_2 , NO_x , SO_2 , and HCI; sample collected via 40 CFR 60 Appendix A Method 10, 40 CFR 60 Appendix A Method 3A, 40 CFR 60 Appendix A Method 7E, and 40 CFR 60 Appendix A Method 10, respectively

Analyzed: 40 CFR 50 Appendix C, 40 CFR 60 Appendix A Method 3A, 40 CFR 50 Appendix F, and 40 CFR 50 Appendix A

Sample	Pollutant	Background Concentration, ppmv	Test Concentration, ppmv	Concentration, ppbv
WP - Background	CO	NA	0.090626	9.063E+01
WP - Background	CO ₂	NA	373.2464	3.732E+05
WP - Background	NO	NA	0.000173	1.730E-01
WP - Background	NO ₂	NA	0.01076	1.076E+01
WP - Background	NO _x	NA	0.020899	2.090E+01
WP - Background	SO ₂	NA	0.000374876	3.749E-01
WP - Background	HCI	NA	0.101429	1.014E+02
GS Run No. 1	CO	0.228424	3.642119	3.642E+03
GS Run No. 1	CO ₂	365.7781	397.2924	3.973E+05
GS Run No. 1	NO	-0.0000988	0.339562	3.396E+02
GS Run No. 1	NO ₂	0.011409	0.014521	1.452E+01
GS Run No. 1	NO _x	0.02142	0.36498	3.650E+02
GS Run No. 1	SO ₂	0.000918438	0.000851918	8.519E-01
GS Run No. 1	HCI	0.066379	0.040446	4.045E+01

AEC = Army Environmental Center GS = Green Star Cluster This page intentionally left blank.

GREEN PARACHUTE SIGNAL FLARE

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TABLE I-1. AEC - GP TEST (31 MARCH 1998)

Real-time measurement of CO, CO_2 , NO_x , SO_2 , and HCI; sample collected via 40 CFR 60 Appendix A Method 10, 40 CFR 60 Appendix A Method 3A, 40 CFR 60 Appendix A Method 7E, and 40 CFR 60 Appendix A Method 10, respectively

Analyzed: 40 CFR 50 Appendix C, 40 CFR 60 Appendix A Method 3A, 40 CFR 50 Appendix F, and 40 CFR 50 Appendix A

sequence of the sequence of th	Pollutant	Background Concentration, ppmv	Test Concentration,	Concentration,
WP - Background	СО	NA	0.090626	9.063E+01
WP - Background	CO ₂	NA	373.2464	3.732E+05
WP - Background	NO	NA	0.000173	1.730E-01
WP - Background	NO ₂	NA	0.01076	1.076E+01
WP - Background	NO _x	NA	0.020899	2.090E+01
WP - Background	SO ₂	NA	0.000374876	3.749E-01
WP - Background	HCI	NA	0.101429	1.014E+02
GP Run No. 1	CO	0.438401	3.381302	3.381E+03
GP Run No. 1	CO ₂	384.3116	402.6624	4.027E+05
GP Run No. 1	NO	0.47854	0.045741	4.574E+01
GP Run No. 1	NO ₂	0.011314	0.033021	3.302E+01
GP Run No. 1	NO _x	0.068608	0.52062	5.206E+02
GP Run No. 1	SO ₂	-0.009615203	0.000299126	2.991E-01
GP Run No. 1	HCI	-0.227326	-0.244292	-2.443E+02

AEC = Army Environmental Center GP = Green Parachute Signal Flare This page intentionally left blank.

WHITE PARACHUTE SIGNAL FLARE

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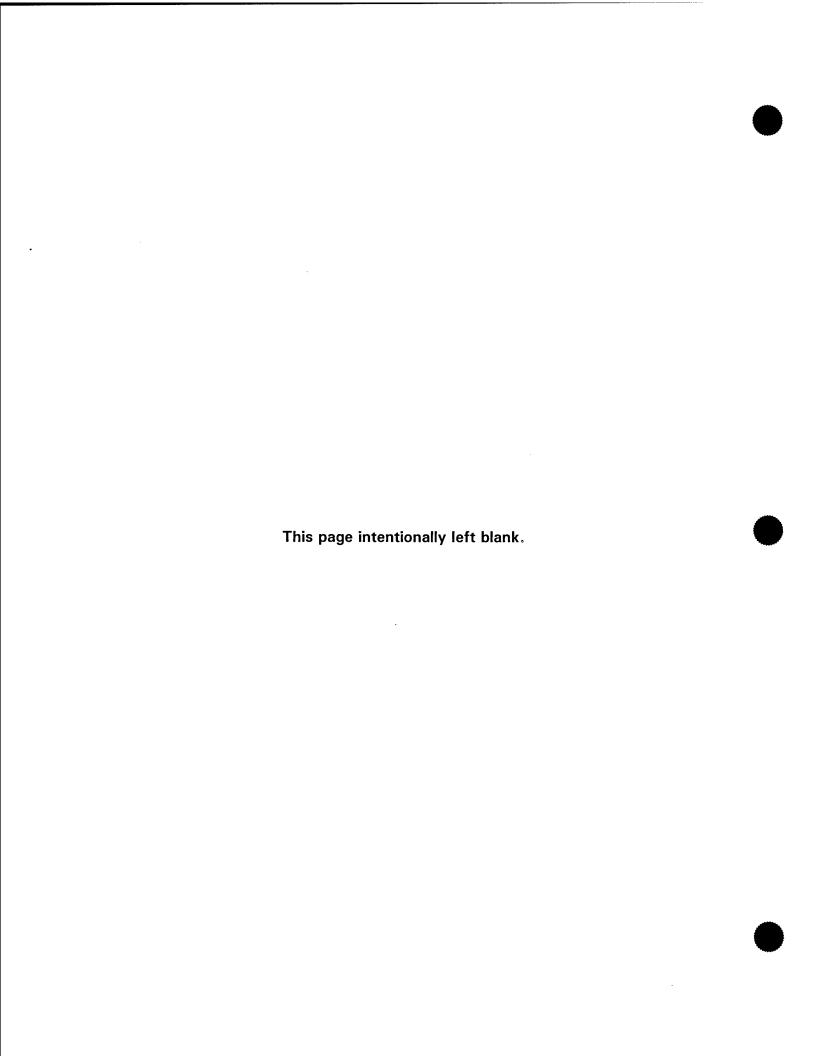
TABLE I-1. AEC - WP TEST (1 APRIL 1998)

Real-time measurement of CO, CO₂, NO_x, SO₂, and HCl; sample collected via 40 CFR 60 Appendix A Method 10, 40 CFR 60 Appendix A Method 3A, 40 CFR 60 Appendix A Method 7E, and 40 CFR 60 Appendix A Method 10, respectively

Analyzed: 40 CFR 50 Appendix C, 40 CFR 60 Appendix A Method 3A, 40 CFR 50 Appendix F, and 40 CFR 50 Appendix A

Sample	Pollutant	Background Concentration, ppmv	Test Concentration, ppmv	Concentration, ppbv
WP - Background	CO	NA	0.090626	9.063E+01
WP - Background	CO ₂	NA	373.2464	3.732E+05
WP - Background	NO	NA	0.000173	1.730E-01
WP - Background	NO ₂	NA	0.01076	1.076E+01
WP - Background	NO _x	NA	0.020899	2.090E+01
WP - Background	SO ₂	NA	0.000374876	3.749E-01
WP - Background	HCI	NA	0.101429	1.014E+02
WP Run No. 1	CO	0.188034	1.853316	1.853E+03
WP Run No. 1	CO ₂	360.4916	362.1898	3.622E+05
WP Run No. 1	NO	0.058601	1.343095	1.343E+03
WP Run No. 1	NO ₂	0.010453	0.034349	3.435E+01
WP Run No. 1	NO _x	0.087148	1.393578	1.394E+03
WP Run No. 1	SO ₂	0.000676349	0.02381874	2.382E+01
WP Run No. 1	HCI	0.279603	0.27661	2.766E+02

AEC = Army Environmental Center WP = White Parachute Signal Flare



155 MM ILLUMINATION ROUND

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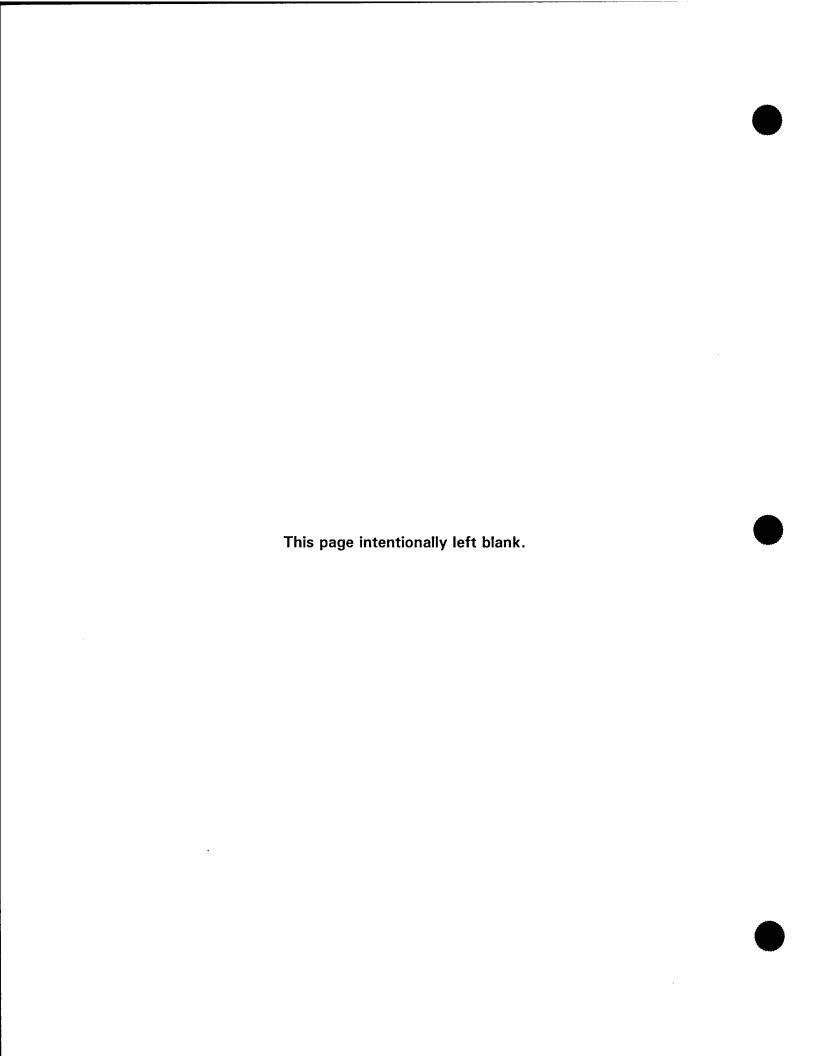
TABLE I-1. AEC - IR TEST (1 APRIL 1998)

Real-time measurement of CO, CO_2 , NO_x , SO_2 , and HCl; sample collected via 40 CFR 60 Appendix A Method 10, 40 CFR 60 Appendix A Method 3A, 40 CFR 60 Appendix A Method 7E, and 40 CFR 60 Appendix A Method 10, respectively

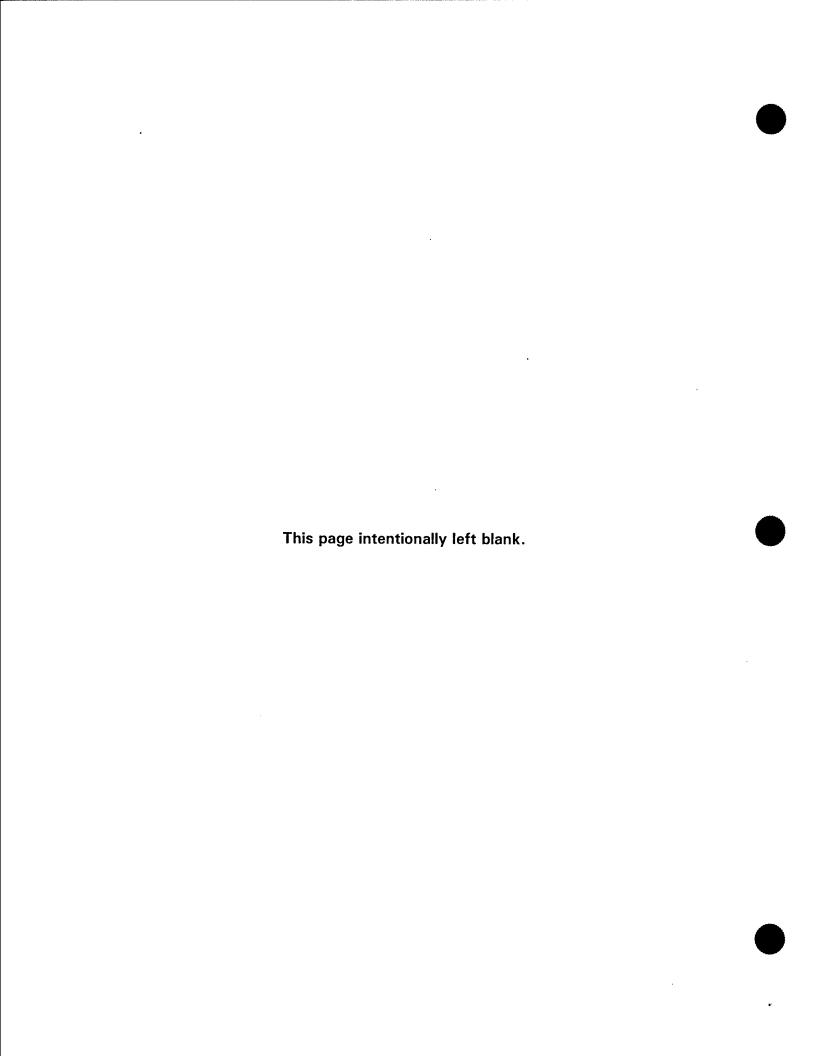
Analyzed: 40 CFR 50 Appendix C, 40 CFR 60 Appendix A Method 3A, 40 CFR 50 Appendix F, and 40 CFR 50 Appendix A

Sample	Pollutant	Background Concentration, ppmv	Test Concentration,	Concentration, ppbv
IR-Background	CO	NA	0.20182	2.018E+02
IR-Background	CO ₂	NA	375.1583	3.752E+05
IR-Background	NO	NA	0.000356	3.560E-01
IR-Background	NO ₂	NA	0.014954	1.495E+01
IR-Background	NO _x	NA	0.019519	1.952E+01
IR-Background	SO₂	NA	-0.000441395	-4.414E-01
IR-Background	HCI	NA	0.313247	3.132E+02
IR Run No. 1	CO	0.242657	8.811353	8.811E+03
IR Run No. 1	CO ₂	359.5272	742.1837	7.422E+05
IR Run No. 1	NO	-0.000136	18.08908	1.809E+04
IR Run No. 1	NO ₂	0.010463	0.778311	7.783E+02
IR Run No. 1	NO _x	0.009077	18.91274	1.891E+04
IR Run No. 1	SO ₂	0.000279057	0.3995781	3.996E+02
IR Run No. 1	HCI	0.256672	0.303724	3.037E+02

AEC = Army Environmental Center IR = Illumination Round

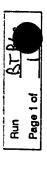


APPENDIX II-J. FIELD DATA SHEETS AND CALIBRATION DATA









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Sampling Location	Banchox	Meter Box Number	11-1	Filter Number	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Sample Type	MZG	Meter AH@	₹) \	Assumed Moisture (%)	N/4	
Run Number	8T-86c	PΑ	0,9935	02 (%)	12	
Operator	wpe ~	K Factor	A)&	CO2 (%)	0	\ \ /
Amblent Temperature (*F)	65	Probe Heater Setting (*F)	<u>4</u>]٧	O2/CO2 Method	assumed	
Barometric Pressure (in)	644 mm	Heater Box Setting (*F)	<u>೨</u> ,05	Moisture Collected (g)	사	# 1 Ainsel
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		Gas Probe Filter	Temperature	(F)	AU		 			>											
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ord All Data Every	Velocity	Head	ΔР	(in H2O)	A4		\frac{1}{2}	1		\ \	•										
Read and Record All	Gas Meter	Reading	Vm (f²)	0,00	5,36	10,71	16.29	21,73	77.12	32.83										1	
	Clock	Time	(24-hr)	17:55:30	14:00:30	14:05:30	14:(0:30	14:15:30		14:25:30											
	Sampling	Time	(min)	0	5	0)	75/	20	35	30											
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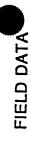
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	011017	NOCER ID (III.)	42	Duct Dimensions (in)		
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Sample Type	100			HIGH MOUNTED		
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Static Pressure (in H20)	. < /			(A) paragraph		
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ot	Pump Vacuum (in. Hg)	0
Diagram of Duct	Impinger Exit	47
	Dry Gas Meter Temperature let Outlet	コイ
	<u> </u>	42
	Filter Temperature	101
	Probe Temperature	1
Minutes	Orifice Flue Probe Filter Differential Temperature Temperature Temperature AH (in H2O) (F) (F)	2
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cord All Data Every	Velocity Head A P (in H2O)	
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	Dr. 1100 0			(or) a pricion political	と	•
Han Number	アーナコメーター	Meter #	= \	02 (%)	3.6	
				(2.1.2.)	6	
Operator	9A@	K Factor IV	★ つ	CO2 (%)	~	
A 1.1 4	• •			/		
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December 1	6::0				- Come	
Dalometric rressure (in)	64 5 MM	Heater Box Setting (F)	. Co.	Moisture Collected (a)	477	
				(8)	130.	
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Pump Vacuum (in. Hg) BURKKY Diagram of Duct Exit CF Ontet On Contest Dry Gas Meter 0000 Temperature F. F. かり Temperature Temperature Temperature 13 5E 52 33 33 Flue Ses **₹** Pressure Differential AH (in H2O) 23.0 2,0 2,0 2,0 2,0 2,0 2,0 2,0 2,0 Orifice Read and Record All Data Every (in H2O) Velocity Head A P Gas Meter Reading Vm (ft) 00/0 18:43:57 18:48 18 16:53/15 18:58:15 (24-hr) (8/28:15 (8/35/15/ 18/38/15/ Clock Sampling Time (min) Traverse Point Number

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Donner Building	Konspox	Meter Box Number	7-13	Filter Number	V	
Sample Type	104.29	Motor AUG			₹Q	
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Run Number	8F-49.61	PX	1700	, , , , ,	200	-
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Operator	1076	K Factor	≱	CO2 /%)		
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Recometric Processes					Curbien-1	
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משניין ופספתם (יוועכה)	+0,5,	Intial Leak Check	क, o । कि	Final Leak Check	77 70 7 10.0	
			10100		C.C. 1460.C.	
			2±;c1)	#.		

			Read and Record	ord All Data Every		Minutes				۵	Diagram of Duct	ct
Traverse	Sampling	Clock	Gas Meter	Velocity	Driffice	Flue			Dry G	Dry Gas Meter		
Point	(min)	(24-hr)	Vm (fts)	Head A D		Ses.	Probe	Filter		Temperature	Impinger	ر م
Number		18:28:15	344,60	(in H2O)	AH (in H2O)	I emperature I emperature Temperature PE	lemperature CD	Temperature		Outlet	ā	Vacuum
SAMEBOX		18:33:15	22, 84%	47	ú	4		26.	£ :	G)	CP	(in. Hg)
	0)	18738:15	84551	H	1.2		2 -	200	A N	١	4	
	. 15	18:43:15/	2.83€		72			j :		9		-
	30	\$1.37:51	17. 17.16		t	+		121		7 7		1
	25	7, 23.01		 	1	-		921		49		_
	25.5	. ! -		ルギー	25		<u> </u>	121	,	56	7.	_
7	5	CINCIAI	7		211	>	>	126		50	>	1
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		(1	+	† †					•	
		7		1								
		1		4								
			-	7								
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							-					
Comments:												





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Æ	Page 1 of

Plant	100%	Probe Length and Type	A)	Helght of Location (ft)	4/7		
Date	3/28	Nozzle ID (in.)	NA	Duct Dimensions (in)	4/4		_
Sampling Location	BANG BOX	Meter Box Number	V-13	Filter Number	¥14		
Sample Type	W-26	Meter ∆H@	₹N	Assumed Moisture (%)	47		
Run Number	BT-2A	РД	1.0046	02 (%)	21	-	
Operator	10P6	K Factor	747	CO2 (%)	C		
Ambient Temperature (F)	50	Probe Heater Setting (F)	γŅ	O2/CO2 Method	Ambient		
Barometic Pressure (in)	637 mm	Heater Box Setting ("F)	125	Moisture Collected (g)	47		
Static Pressure (in H2O)	1.3"	Intial Leak Check	200 B6"	O.CO & & Final Leak Check	1,90000		
							_

	Γ	<u>۔</u>		GF GF		T	T	T		<u> </u>	Τ	T	T	T	T		Τ	Τ	Τ	Τ	Τ	Τ	Ī	T	Τ	Τ	T	T
Suct		Pump	Vacuum	(in. Hg)	-		-	·		-	_																	
Diagram of Duct		Impinger	Ē	CP.	₩			-	-																			
	Dry Gas Meter	Temperature	Outlet	Ð	42	717	ンカ	47	\$77	49		•								-						-		
	Dry G	Temp	Inlet	G	41					7																		-
		Filter	Temperature	G)	<u>2</u>	32	121	126	126	12.51																		
		Probe	Temperature	3	47	_				>																		
Minutes	Flue	Gas	Temperature Temperature Temperature	£	NA					>											-							
	Orifice			AH (In H2O)	1.1	<i>511</i>	7/7	7')	7''	6'1																		
ord All Data Every	Velocity	Head	Δ Δ 2	(CH TSO)	417					//																		
Read and Record All	Gas Meter	Reading	£ (€)	33.5	5.4	10.8	7.91	712	27,8	32.92								•										
	Clock	Time	(24-hr)	2010	9/10	10:11	99; //	11:11	9/://	11:51																		-
	Sampling			T		0)	٠ ري	જ	22	30																		
	ı	Iraverse	Non W	POLITICAL PARTY AND ADDRESS OF THE PARTY AND A	70079	4				\ \ !	>						•											



Run <u>81-1</u>B

						10 1 082
Plant	.Д. ОД.	Probe Length and Type	43.4	Heloht of London III		
9.6	2010	1	3 -	I I I I I I I I I I I I I I I I I I I	₹2	
Pipe	37.50	Nozzle ID (in.)	₹ 7	Duct Dimensions (in)		
Sampling Location	RAUCRAC	Motor Box Mante		(11)	72	
	X CO SWEET	Metal DOX NUMBER	11-1	Filter Number	₹7	
Sample Type	14-26	Meter AH@	4(1	Assumed Majating May		
Dis Min Lan	0 6			(%) BUTTON WORLD (%)		
	D -4-10	PX	5.993€	02 (%)	7	•
Onerator			0	(w) = 0	ð	
Sia Bodo	Wre	K Factor	4∕	CO2 (%)	4	
Ambient Temperature CE	3			(av)	0	
(1)	_	Prope Heater Setting (F)	₹ 2	O2/CO2 Method	+	
Barometric Preserve (in)	1.27				大型ののよう	
(111) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02/ mm	Heater Box Setting (F)	V2	Moisture Collected (a)	1	
Static Pressure (in H2O)	1211	Π		(A) possess	<u>}</u>	
(031111)	163	Intital Leak Check	688XY	Final Leak Check	11 000	
			l		200	

Diagram of Duct

Pump Vacuum 明のないないのの Impinger Exit (F) Seg. او 76 00/00 Dry Gas Meter Temperature C.E. A Temperature Temperature Temperature Probe NA G FJG ŝ Pressure Differential Orifice Read and Record All Data Every (in H2O) Velocity Head A P Ϋ́ Gas Meter 281.1 286.2 391,4 396.6 391.6 306.52 Reading Vm (ft³) 2760 10:51:60 10:56 Clock Time (24 - hr) 11:01 17:71 Sampling Time O Bin Nordi 30 Number BAVGBOX Traverse Point





Run Page 1 of

						•
Plant	DP6	Probe Length and Type	40	Helpht of Location /#\	11.	
	276			(11)	47	
Lai 6	3/26	Nozzle ID (in.)	かん	Duct Dimensions (in)	₹7	
Sampling Location	BANGROC	Meter Box Number))-A	Filter Number	J.A.	
Sample Type	M-26	Meter AH@	40	Assumed Moistage (94)	11.8	
Run Number	FA - BKa	P.A.	0.9935	O2 /%/	42	
	2000			(m) = 0	17	
Operator	3 9 8	K Factor	くろ	CO2 (%)	0	
Ambient Temperature (°F)	7,5	Probe Heater Setting (F)	42	02/CO2 Method	4 17 7	
Barometric Pressure (in)	637	Heater Box Setting (F)	125	Moisture Collected (a)	1 Very	
Static Pressure (in H2O)	ا+1'ک"	Intial I ask Chart	16.8	(A)	2	
1		man com Oliver	() ()	S C LINAI LOAK CHOCK	0.00.0	

Diagram of Duct

	guideren	Š	Gas Meter	Velocity	میاند	9						
Traverse	Time	TIme	Reading	Head	Pressure	§ §	Probe	Filter	Dry G Temp	Dry Gas Meter Temperature	Impinger	Pump
Number	C C	12: 40: 15	O , O O	Δ.P.	Differential AH (in H2O)	Temperature Temperature	Temperature	Temperature	2	Outlet	E E	Vacuum
Banchor	5	12:42:15	S.G	4	0.7	2	1.	£ 0,4		G (F) C	(F)	(3. <u>F</u> g)
0	0	12:00:15	11.2		99:1			53	4	0	2	ء اذ
	. 15	(2:55:(5	16.6		8			77.2		0		7
	23	13:00:15	6,14		0.1			1		, ,	1	in
	52	13:05:15	27.4	,	α			55		F		2
	30	13:10:15	3,3 9.3	>	20			36		5	*	4
			-		9	*	*	55		5	•	6
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Page

Plant	7P6	Probe Length and Type	₹ 0.	Helaht of Location (#)	V 17	
	13/20/00			(11) 11000000000000000000000000000000000	Ł	
Late	21.197.10	Nozzie ID (in.)	42	Duct Dimensions (in)	4U	
Sampling Location	BAMEBOX	Meter Box Number	11-7	Filter Number	13.4	
Sample Type	M-26	Meter AH@	47	Assumed Moleting (%)	110	
Run Number	FA-A-1	PX	13/60 XX 000	(%)	117	-
Operator	10.00	K Factor	25 4115	CO2 (8)	24.	
		5105	12	CO2 (%)	0	
Ambient Temperature (*F)	27	Probe Heater Setting (F)	イイ	O2/CO2 Method	7.0.7	
Barometric Pressure (in)	635 mm	Heater Box Setting (*F)	12.4	Moisture Collected (a)	2000	
Static Pressure (in H2O) +1.S	+1.S'(Intial Leak Check	70100	COLO C Final lask Chack	10 C	

Diagram of Duct Read and Record All Data Every

			Head and He	cord All Data		Minutes						
	Sampling	Clock	Cas Meter	Velocity	Orifice	Flue			2000	Dry Gas Mater		
Traverse	Time	Time	Reading Head Pres	Head	Pressue	S S	Probe	Gas Probe Filter	Temp	Temperature	Impinger	Pump
יוסר	E C	(24-hr)	Vm (f2)	ΔР	Differential	Temperature	Temperature	Temperature	iolet	Ordet	1	
Number	0	13:41:45	4	(In H2O)	AH (in H2O)	E	E	2000	9	OFF OF	3 6	Vacuum
MIKGOX	Ϋ́	13:46:45		A.Y	000	N.A	41	17.14	114			10. rg
	9)	13:51:45	_		877	-	-	2	2	9-	Ł N	7 :
	. ألم	13:56:45	8.5		α			200		-		7
	3	14101 th	33.7		gø			シジュ	1	= :		7
	3	>n . 70' n'	75 05	-	20			55		= :		1,
	4		1000		200			54		=		1
 	2	07.1	37.50		۱۰۵			54		12		7
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	100				
Plant	DP6	Probe Length and Type	đ Z	Height of Location (ft)	3
Date	3/28/98	Nozzie ID (in.)	せて	Duct Dimensions (in)	70
Sampling Location	PANCIBOY	Meter Box Number	V-13	Filter Number	47
Sample Type	M-26	Meter AH@	474	Assumed Moisture (%)	,U+
Run Number	FA-8-1	λd	1,0046	02 (%)	21
Operator	WPC	K Factor	UA	CO2 (%)	0
Ambient Temperature (°F)	42	Probe Heater Setting ("F)	Na	O2/CO2 Method	Au Bient
Barometric Pressure (in)	635 man	Heater Box Setting ("F)	125	Moisture Collected (g)	7.
Static Pressure (in H2O)	7'1+	Intial Leak Check	0.0185	O, Ol & S Final Leak Check	0,0005"

Diagram of Duct

		Exit	*F) (in. Hg)	- Vot			-				<u>-</u>										
Dry Gas Meter		tlet				51	15:	51	52	-									-		
Dry G	Temp	Inlet	E)	DA PA	_						>										
	Filter	Temperature	æ	।तह	140	95	133	130	130												
	Probe	Temperature	E	NA	_						3				·						
Flue	Se Se	Temperature Temperature Temperature	æ	NA							~										
Orifice			AH (in H2O)	۲۰3	[,2	1.2	2,	2,1	7:1												
Velocity	Head	ΔР	(in H2O)	ψN							<i>\</i>										
Gas Meter Velocity	Reading	Vm (ft³)	310.37	315,5	320.8	3.26.0	331.1	336.1	341.37						,					1	
Clock	Time	(24-hr)	13:41:42	13:46:45	13:51:45	18:30:4S															
Sampling		Ē					20	.52	36												
	Traverse	Point	Number	DAM Bek							' '	≽	•	•							



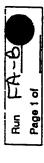
Run FA-A-2

Piant) PC	Probe Length and Type	4:4	11.11.11.11.11.11.11.11.11.11.11.11.11.		
		odí, piminano	132	Height of Location (ft)	7 Y Y	
Late	3/26/98	Nozzle ID do 1	114.		1	
Sempling prosting	0 22.0	(111)	2/7	Duct Dimensions (in)	_ - -	
Ampany meanon	DAMOBOK	Meter Box Number	>	Filter Number	Y/Y	
Sample Type	10.01	()		B01151 5	t 2	
	74.50	Meter AH@	とこ	Assumed Moisting (%)	\ \cdot \cdo	
Run Number	FA-4-9	7.	1000	(or) emission	ŁΩ	•
	6	3	C.418 02(8)	02 (%)	ī	
Operator					1	
	2000	N FACTOR	42	CO2 (%)	~	
Amblent Temperature P.P.	ここっ		4)	
	2	Probe Heater Setting (F)	くろ	O2/CO2 Method	\ _	
Barometric Pressure (in)	125 mars			Done Took	Therese	
	655	Heater Box Setting (F)	125	Moishire Colleged (2)		
Static Pressure for Hoov	V 14			(A) paragraph (B)	47	
(2000)	11.0	Intial Leak Check	0 0 0 N	O O O ST Final Park Check	7.1.0	

Pump Vacuum (in. Hg) 4499 Diagram of Duct Impinger Exit (°F) Outlet Control 600 0 9 Dry Gas Meter Temperature Temperature | Temperature | Temperature CP CC 38 57 5000 Probe Flue Ses E Differential AH (in H2O) Pressure Orifice 8 8 8 8 8 8 Read and Record All Data Every (In H2O) Velocity Head A P 7 Gas Meter Reading Vm (ft³) 13.16 53.37 5.5 <u>.</u> 15:26:45 15:31:45 15:31:45 (24-h) (5:16:45 (5:21:45 15:41:45 Clock Sampling Time O (ii) 2865 2 BANGBOX Traverse Number Point







Plant	DPG	Probe Length and Type	₹ 2	Height of Location (ft)	1)4	
Date	3/28/08	Nozzle ID (In.)	4つ	Duct Dimensions (in)	AL	
Sampling Location	BANGBOX	Meter Box Number	V-13	Filter Number	114	
Sample Type	M-26	Meter AH@	J.A	Assumed Moisture (%)	,) / (,	
Run Number	FA-8-2	PX	1,0046	02 (%)	21	•
Operator	WAG	K Factor	ر ج ج	CO2 (%)	0	
Ambient Temperature (°F)	77	Probe Heater Setting (F)	47	O2/CO2 Method	Auh, o't	
Barometic Pressure (in)	635 mm	Heater Box Setting (*F)	125	Moisture Collected (g)	ر الم	
Static Pressure (in H2O)	4.5	Intial Leak Check	50000	0,000 Final Leak Check	0,010511	

			Read and Record	ord All Data Every		Minutes				α	Diagram of Duct	ij
ı	Sampling	3 2 2 3 3 4 3 4	Cas Meter	Velocity	Orifice	Flue			Dry G	Dry Gas Meter		
Iraverse	Time	Time	Reading	Head		Ses	Probe	Filter	Temp	Temperature	Impinger	Pump
N Point		(24-hr)	Vm (fg)	ΔP		Temperature	Temperature Temperature Temperature	Temperature	Inlet	Outlet	1 3 3	Vacuum
Ro Incibas) V	15.21.40	25.07	י אל י	מאט של	£,	£ ,	(£)	(£)	£!	E.	(in. Hg)
	<u> </u>	01:2:21	1,200	4	7,0	ž	₹ 2	12	¥2 1	7	₩ ₩	-
	2	13.46.48	357.6		1.5			128		49		
	. 15	. 1	3 62 6		1,2			128		50		-
	જ	(5:36:45	367.7		2'!			121		V		-
>	25	12:41:42	372.8	>	2']	>	,	201	>.	\ \ \		-
	30		377.86	•	1.2		\	107	7	64	\ \ \	
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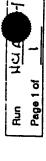
Run Page 1 of

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Plant	<u>ي</u>	Probe Length and Type	1 10	Helmha of Leading			
	10	241.	\	THEIGHT OF LOCATION (TI)	くつ		_
Late	2130128	Nozzie ID (in.)	44	Duct Dimensions (in)	1,0		
Sampling Location	BAWGBOK	CAUCASOK Meter Box Number	11-1	Eliter Mimber	2		
Cemple Time	,0		-	BOHING BUT	774		
adki adiiina	W-26	Meter AH@	₹2	Assumed Molsture (%)	4		_
Run Number	#CI HG-RVO	PA	7590V	(2)		•	
	7 7 7		50-10	OZ (%)	8		
Operator	36	K Factor	γ V	CO2 (%)	7		_
Ambient Temperature CF	77	The transfer of the transfer o		(a) = 22	2		_
	2)	riobe neater setting (*F)	オイ	O2/CO2 Method	A. Lier		-
Barometric Pressure (in)	646 mm	Heater Box Setting (F)	125	Moisture Collected (a)	1/4		_
	1			(A) passage	۲0,		_
State Liesser (in MZO)	+1.5	Intial Leak Check	0.00	O.OO O S. Final Leak Check	0.00000		
							-

Traverse		֓֝֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֓֓	70 P	1/0/0014	5	E						
,	Time	Time	Reading	Head	Pressure	en e	Probe	3	Dry G	Dry Gas Meter		
Point Jumber	(min)	(24-hr)	`	ΔP	Differential	Temperature	Ē		Ē	emperature et Outfet	Impinger Exit	Pump
SAMGBOX		07:39	1.5.4	1.14	(UZH 0)	£ 9	(F)	20,50		S. E.	(E)	(in. Hg)
	10	07: 44	0.0	-	0 0	<u> </u>	t -	**	#7	1	d 2	3
-	. 15	67:पव	16.S		200			77	+	7 (181
	3	51.24	43.2	>	0		,	101		S		K
	25	62:10	27.2	}	0		>	1		5	7	જ
1	30	20:08	22.4		00			او	>	5	,	R
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Plant	796	Probe Length and Type	YN	Helight of Location (#)	V V
Date	3/30	Nozzie ID (In.)	43.4	Disct Dimensions (n)	
Sampling Location	BAMBBOX	RAWABOY Meter Box Number	11-7	Eller Number	
Sample Type	M 26	Meter AH@	40	Assumed Moishing (%)	
Run Number	HC1-A-HG-1	P.A.	0.9925 02181	02 (%)	
Operator	wpe	K Factor	DA V	(%) 50	2 0
Ambient Temperature (*F)	7h	Probe Heater Setting ("F)	<	02/CO2 Method	7
Barometric Pressure (in)	640 mm	Heater Box Setting (F)	(250	Moisture Collected (a)	4/4
Static Pressure (in H20) +1, S"	+1.5"	Intial Leak Check	O O I S Ca Final Leak Chack	Final Leak Check	2
					ううろがい

•		Pump	Vacuum	(in. Hg)	37	7	2	6	2	1	7															
		Impinger	э Т	U E	t 2								\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	>	1											
	Dry Gas Meter	Temperature	Outlet) E(1	(و	و	3	1	,	•												-		
	Dry G		<u>ē</u> i	(L)	2								>											-		
		Filter	<u></u>	1 2 3	77	Ç(5.	\$	576	12	7															
	,	Probe	lemperature Temperature		* .							 	>													
Minutes	Flue	S.	l emperature	4	, j-				_		\	>														
	Orifice	Messue	AH (in H2O)	201	0	30	g	Q.	8')	α,																
read and record All Data Every	Velocity	Head	(in H2O)	とつ	-						>	>														1
Read and He	Doeding		00.0	ورا	11.2	0	72,72	ניליל	41.7	34.06								,						-		
450	Y SE	(24-bc)	54:41:45	91(9:45	9:24:45	SD: 22 .0	0 . TIL. 10	77.00	الر	145	4:45:154															
Sempling	Time			5	၁)	. (5		74	Ī	δ									+							
	Traverse	Point	Number	BARBEY					1	>	,					•	•									Comments:



Run MC1 B.- HG- L

Plant	10pc	Probe Length and Tyne	111	11.11	*	
		odí: pinis	k Z	i neignt of Location (ft)	Ł 2	
Cate	28	Nozzde ID (in.)	47	Duct Olmenstone (2)		
Sampling Location	BANGBOX	Meter Box Number	1-14	Eller Musher		
Sample Type	141-9 C	Mater AH®		BOILDAY BAIL A		
		9	2	Assumed Moisture (%)	\	•
Hun Number	子や-12-	PA	11000	O2 /8/	1	-
Operator	47.3			(w)	ĩ	
Change	376	K Factor	47	CO2 (%)	(
Ambient Temperature CF	£	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(2)	2	
	J	Probe Heater Setting (F)	¥.2	O2/CO2 Method	1.0.0	
Barometric Pressure (In)	V d/	0	300		120 Townt	
T	Oloma	neater box Setting (F)	755)	Moisture Collected (a)	414	
Static Pressure for Hoor	\ -	Indial Control	3	(6)	(1)	
7	2	Intital Leak Check	0,00gs.	O,00000 Final Leak Check	1, 1,0000	

	Diagram of Duct
0,00000	
0,0005" Final Leak Check	111-11-1
Intial Leak Check	Read and Record All Date Ex
Sign Hessen (In HEQ)	

	ſ												_											•	•	
<u>o</u>			Pump	Vacuum	(in. Hg)	7	7,	7	7	7	4															
Dagram of Duct			Impinger	ž	£	2						>														
ā		Dry Gas Meter	remperature		13	76	25.	===	14	4.	45														-	
		Dy'C	dua i			*~~	1				>	•				-										
		į	Temperature	a de la composition della comp	12.5	12,	3	126	125	120	127							-								
		Probe	Temperature Temperature Temperature	e G	47			+	1		1	,								+						\mid
Minutes	Flish	. g	Temperature	e,	47	-			+		>															
	Orifice	Pressure	Differential	ΔH (in H2O)	5,5	5	- 2	١٥	11.6) (7:1															
ord All Data Every	Velocity	Head	ΔP	(in H2O)	40			,	}									•								
Read and Record All	Gas Meter	Reading	Vm (ft³)	379.60	384.6	389.5	294. 4	299 4	4 70	1_	401.63															
	Clock		24-h)	$ \overline{\lambda} $		5	9:29:45	VIK	117	3	21	27.62	1													
	Sampling	Time	2	ی			<u>ر</u>		1		T															
		Traverse	בַ בַּ	Number	DAMGROX	1			1									•					-			





Run A-46.

	١	***************************************				
Plant	Bandpar	Probe Length and Type	₹ 2	Height of Location (ft)	な	
Date	3/38/	Nozzle ID (in.)	47	Duct Dimensions (in)	414	
Sampling Location	Bancolox	Meter Box Number	V-11	Filter Number	1)4	
Sample Type	92-W	Meter ∆H@	\$	Assumed Moisture (%)	1/4	
Run Number	151-A-166-2 rd		0.9935	02 (%)	10	
Operator	अ रिंग	K Factor	λV	CO2 (%)	í	
Amblent Temperature (F)	45	Probe Heater Setting (F)	₽ 0	O2/CO2 Method	A Casht	
Barometric Pressure (in)	646 mar	Heater Box Setting (°F)	1250	Moisture Collected (g)	4	
Static Pressure (in H2O)	+1.5"	Intial Leak Check	0.008 G	O.CO& G' Final Leak Check	0,000511	

	Г				Γ	Т	Т	Т	Τ	T	Τ	T	Т	Т	· T	7	Ţ	_ _T	_	Т	Τ-	Т	T	T-	ī	Т	 7	T-	, 	_
ıct		Pump	Vacuum	(in. Hg)	N	0	1	C	100	1/2																				
Diagram of Duct		Impinger	3	Ð	くつ	-		-	-	-	>			.																
ä	Meter	ature	Outlet	FFC	٦	7	_	5	×	20																				J
	Dry Gas Meter	Temperature	Inlet	(F)	δO	-				-	>																			
		Filter	Temperature	FFC	57	1	56	5/6	55	4.3																				
		Probe	Temperature	Ð	NA	_					1																			
Minutes	Flue	Gas	Temperature Temperature Temperature	G	ηĄ		_					>																		
	Orifice	Pressure	Differential	AH (in H2O)	ر اره	<u>ာ</u>	837	1.8	∞ :	8/																				
Read and Record All Data Every	Velocity	Head	ΔР	(in H2O)	ŊΨ					<u> </u>	A																			
Read and Rec	Gas Meter	Reading	Vm (f²)	00.0	5,05	10.9	16.0	22.2	27.8	33.65										•										
	Clock	Time	(24-hr)	11;12:15	(1:(7:(5	51; 22! 1	11:27:18	11:32:(5	11:32:(5	11:45:11				•													٠			
	Sampling	Time	(min)			Q	. (5	20	25	30																				
		Traverse	Point	Number	AWGEST				}	>						,		•												

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Run 8-46-2 Page 1 of

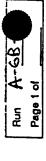
Plant	200	Probe Length and Tyne	1)4	Holothe and Lands	47.7	
42		24/:		i reigin di Location (n)	2	
2818	$\frac{2}{3}$	Nozzie ID (in.)	47	Duct Dimensions (in)		
Sampling Location	BAN DO	Meter Box Number	1/2/2		+	
+	*****	BOILING STORY		riller Number		
Sample Type	W-26	Meter AH@	₹	Assumed Moleting /q/		
Bin Nimber	10.01			(v)		
BOILDE	שרום-ודפ-ל	Yd	1.87¢	02 (%)	20	-
Operator	000	7	71		i	
	2	N Factor	₹ 2	CO2 (%)	{	
Ambient Temperature (°F)	- K	Probe Heater Setting CF	A) A.	O2/CO3 Matter	1. 1.	
Description of the second	Ī	/ · \ 8		OCIONE MBUIOD	ナスひられ	
Calonier C ressure (in)	10 mm	Heater Box Setting (F)	52)	Moisture Collected (a)	ہر	
Static Pressure for HOO)	7 (50			/B)	214	
		Inual Leak Check	0,0000	O.CO (C) Final Leak Check	0.00001°C	
					2	

Diagram of Duct

Pump Vacuum (in. Hg) Impinger Exit CF 573527 Outlet Dry Gas Meter Temperature Inlet UA DA Temperature Temperature Temperature 55 82 28 28 28 27 28 27 28 Filter Ş Probe EX Flue g 543 Minutes Pressure Differential AH (in H2O) Orifice 94650 Read and Record All Data Every (in H2O) Velocity Head AP 439.67 Gas Meter Vm (ft) 409.70 414.7 Reading 434.7 419.7 11:32:15 11:42:15 11:27:15 (24-h) 11:17:15 11:22:16 Time Sampling Time S O Min ব্দাধ্যম BAUGEOF Traverse Number Point







			•		
Plant	Banglagg	Probe Length and Type	47	Helght of Location (#)	777
Date	3/36	Nozzle ID (in.)	JA	Duct Dimensions (in)	
Sampling Location	Bangbook	Meter Box Number	11-7	Filter Number	
Sample Type	M-2Z	Meter ∆H@	AL	Assumed Moisture (%)	>
Run Number	1K1-A-CB-1	PA	6,9935 02(%)	02 (%)	7.5
Operator	te) Pe	K Factor	かり	CO2 (%)	C
Amblent Temperature (°F)	75	Probe Heater Setting (F)	47	02/C02 Method	Ambien
Barometric Pressure (in)	646 m	Heater Box Setting (°F)	125	Moisture Collected (g)	٨١٩
Static Pressure (in H2O)	+('2	Intial Leak Check	0.018		C.O. lowo Cx

Diagram of Duct

			Read and Re	Read and Record All Data Every		Minutes						;
	Sampling	Clock	Gas Meter	Velocity	Orifice	Flue			000	Dry Gas Motor		
Traverse	Time	Time		Head	Pressure	ŝ	Probe	Filter	Temp	Temperature	Impinaer	Pumo
Point	(mim)	(24-hr)	Vm (fg)	ΔР	Differential	Temperature	Temperature	Temperature Temperature	Ž	Outlet	, i	Variation
Number	0	3:24:30	මට. ම	(in H2O)	AH (in H2O)		Ē	4	٠	9	į (Go Hai
345254	6	13:21:30	5.8	4.7	00	7	J.A.	ガ	134		7/	A
_	ō	13:34:30	111	_	ر. ئ		-	1	-) <	2	4,
	. 15	13:39:30	16.8	-	811		-	7.7		2 5		15
	SO.	13:44:30	<u> </u>		8,			27	-	2 (2		1,
	52	13:49:30	38.0		0		<u> </u>	35		2 =		1
	30	35:43:51	33.82	1	ā	\ -	1	20.5	>		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	11
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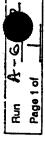
Run 段 Page 1 of

Plant	2	Probe Length and Type	1,4	Heloht of London 140	71.	
	1.0			TOTAL OF TOTAL (II)	42	
Laile	330	Nozzde ID (in.)	\ \ \	Duct Dimensions And		
Sampling Location	Br. Arv	Motor Day M	1/2/2	(III)		
	Cree Dor	Meler DOX NUMBER	C A	Filter Number		
Sample Type	W-26	Meter AH@	414	Assumed Moleting (2)		
O. D. Mimber	- Y 40 - 10 1			(a) a mismin name	>	•
BOLLONI	1-9-99-1-11	<u> </u>	1,0046	. (%)	1	•
20000	2011				17	
Operator	Wre	K Factor	ろそ	CO2 (%)		
Ambient Temperature CE	(2)		V			
1	35	Probe Heater Setting (*F)	ł	O2/CO2 Method	- 	
Barometric Pressure (in)	グログ	Hostor Bar Sallin	100		Ampler!	
	3	I leader DOX Setting (F)	22	Moisture Collected (g)	4/7	
Static Pressure (in H2O)	+(:S)	Intial Leak Check	0.00 62 5711	O. OO O STIL FINELL BAK Chack	1000	
			,	I I WI LOUN OI JOCK	こうしても	

Pump Vacuum (in. Hg) Diagram of Duct Imploger Exit CP Outlet £ 8 5532 200 Dry Gas Meter Temperature Inlet Temperature | Temperature | Temperature 821 821 821 721 821 Probe E B ŝ E A Minutes Differential AH (in H2O) Pressure Orifice 2012 Read and Record All Data Every Velocity (in H2O) Head A P 4 Reading Vm (F) 443.61 463.00 467.62 467.00 4 Gas Meter 13:24:30 13:34:30 13:34:30 13:44:30 13:44:30 13:44:30 (24-hr) Clock Sampling Time (S (S BAKBOY Traverse Number Point







Plant	BAMBBOK	Probe Length and Type	+ ↑ 1	Height of Location (ft)	★ 2
Date	5/30	Nozzie ID (in.)	AY.	Duct Dimensions (in)	
Sampling Location	DR	Meter Box Number)- <u>/</u>	Filter Number	
Sample Type	W-26	Meter AH@	ŊĄ	Assumed Moisture (%)	
Run Number	HCIA-6B-2 YU	PA	0.9935	02 (%)	2
Operator	whe	K Factor	λV	CO2 (%)	C
Ambient Temperature (°F)	56	Probe Heater Setting (°F)	47	O2/CO2 Method	Ambront
Barometic Pressure (in)	647mm	Heater Box Setting (*F)	125	Moisture Collected (g)	とな
Static Pressure (in H2O)	+1.5%	Intial Leak Check	,5000	0.00€≤ Final Leak Check	0.0105"

			Read and Record	cord All Data Every	Σ	Minutes				3	Diagram of Duct	5
	Sampling	Clock	Gas Meter	Velocity	Orifice	Flue			Dry G	Dry Gas Meter		
Traverse		Jme		Head		Gas Probe Filter	Probe	Filter	Temp	Temperature	Impinger	Pump
Point	2	(24-hr)	Vm (ft²)	ΔP			Temperature	Temperature	Inlet	Outlet	EX.	Vacuum
Number	01	S. 25: 5	4	(ln H2O)			(F)	(F)	(F)	9	£	(Fr. Ha)
PAUGEOX		15:01:30	SiG	λ\ <i>γ</i>	ર્જા	₩	γh.	95	くて	2	7	2
	٥	15:12:30	.; ; ::		1,8		_	56		13	-	7
	<u>.</u>	15:17:30	ر ١٥.٦		.8			35		13		1
		15:22:30	22.3		ς.			57		72		16
		15:27:30	27.8		ું જું			77		14		16
	30	15:32,30	33,56		8'-			795		2		1
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Run 14C1 B-68-2 Page 1 of

Plant	DR	Probe Length and Type	ち	Height of Location (ft)	42	
Date	3/30	Nozzle ID (In.)	क्त	Duct Dimensions (in)		
Sampling Location	BAMEROL	Meter Box Number	V-13	Filter Number		
Sample Type	Wee	Meter AH@	₹ 2	Assumed Moisture (%)	=	
Run Number	141 B-08-2 Yd	PX	1,sodle	02 (%)	2/	
Operator	WPC	K Factor	ろ	CO2 (%)	(
Ambient Temperature (F)	56	Probe Heater Setting (F)	40	O2/CO2 Method	A. Sient	
Barometric Pressure (in)	647 wan	Heater Box Setting (*F)	125	Moisture Collected (g)	\$	
Static Pressure (in H2O)	+1,5"	Intial Leak Check	1250000	SOO STI Final Leak Check	\$\$\$\$\$\\	

Diagram of Duct Minutes Read and Record All Data Every

													•										
		Pump	Vacuum	(PH c)	-	-	•	-		-													
		Impinger	, <u>1</u>	و	14	, j		-		د			•										
	Dry Gas Meter	Temperature	Outlet	Ę,	201	200	0.5	23	200	27											-		
	Dry G		Ē	•	114	,				7													
		Filter	Temperature Temperature Temperature	£	138	139	134	132	ואמ	133													
		Probe	Temperature	£	みな	-				>													
Minutes	Flue	8	Temperature	(F)	き				_	>			ļ										
	Orifice	Pressure	Differential	ΔH (in H2O)	1,2	1.2	1.2	7.7	2,1	2:1													
cord All Data	Velocity	Head	ΔP	(n H2O)	され	_				>													
Head and Hecord All	Cas Meter	Reading	(اد)	474.85		484.3	7,687	1'454	6.864	508.90						•						•	
	Clock	Time	(24-hr)	52:305	15:07:30	15:12:30	15:17:30			(5:32:30													
	Sampling	eui.	(Jim)	٥	٧,	Ō	(S	20	25	30													
	,	Iraverse	יייסן	Number	AKE LIK	•									٠					-			

Comments:







	K					
Plant	<u>し</u>	Probe Length and Type	ささ	Helaht of Location (#)	477	
5	10/0			())	
	ICIC	Nozzie ID (in.)	₹Q.	Duct Dimensions (in)	-	
Sampling Location	BANGAROK	Meter Box Number	11~/	Filter Number		
Sample Type	W-26	Meter AH@	ζ φ	Assumed Moisting (%)	٤	
Run Number	62P-840	PX	75	0.2 (%)	• 0	
Operator	Γ	7,000	, 0	(2) = 2		
	5	יון מכוס	t Z	CO2 (%)	0	
Amblent Temperature (*F)	46	Probe Heater Setting (F)	せて	O2/CO2 Method	A. Lisert	
Barometric Pressure (in)	648 mm	Heater Box Setting (°F)	125	Moisture Collected (a)	4	
Static Pressure (in H2O) + (, S	+(.5	Intial Leak Check	0.01 851	0.01 @5' Final Leak Check	0,8165	

			Read and Rec	Read and Record All Data Every		Minutes				Š	Diagram of Duct	H
	Sampling	Clock	Gas Meter	Velocity	Orifice	Flue			Dv G	Dry Gas Meter		
Traverse	Time	Time	Reading	Head	Pressure	S. S.	Probe	Filter	Temp	Temperature	Impinger	Pump
Ton	CIME ((24-hr)	Vm (fb)	ΔP	Differential	Temperature	Temperature Temperature Temperature	Temperature	Inlet	Outlet	, M	Vacuum
Mumber of	ol O	02:10	00'0	(n H20)	AH (in H2O)	9	Ð	(F)	(F)	£	£	(in. Ha)
The Market	5	07:55	5,6	¥17	တို	NA	ŊА	15	13A	6	47	2
	٥	90,80	11.2		00.	_	-	25		Œ	-	7
	. 13	08:05	16.80		8.7			56		0		1 2
	8	91:80	33.5		09.7			1/4		σ		1
	25	\$1:80	22 2		o'			3		0		3,5
	30	S2:3S	33.81	>	00	7	7	7,7	ì	0		2 1
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FIELD DATA

Run 4-100-1 Page 1 of 1

Plant	DPC	Probe Length and Type	支	Helaht of Location (#)	114	
Date	श्रहा	Nozzle IO Go.	07.7	(1)	2/2	
	V	(iii)	2	Duct Dimensions (in)		
Sampling Location	DANGBOX	Meter Box Number	コークー	Filter Number		
Sample Type	W-26	Meter AH@	4/4	A		
			į	CASHINED MOISIUM (%)	>	
Hun Number	A-WP-1	Yd	0,9935 021%	02 (%)	21	•
Charator					7	•
Charles	wr6	K Factor	_ 4	CO2 (%)	(
Ambient Temporature	M)	
ancient lembaarde (L)	22	Probe Heater Setting (F)	₹ 2	O2/CO2 Method	A. C. A.	
Berometric Preserve (In)					ノージョーノ	
(111)	ora mar	Heater Box Setting (F)	ري ال	Moisture Collected (n)	4	
Static Preserve of Land	\ -			(8)	1,2	
(OZUII) Amerei (STO)	+1.5	Intial Leak Check	0,0 0,0 0,0 1,0 0,0 1,0 1,0 1,0 1,0 1,0	O.O. O.S." Final Leak Check	0.00	

1	_			_			_	T	T-	_	 	 _	· 		_					 						
ct		Pump	Vacuum	(in. Hg)	b	2	7	2	2	2																
Diagram of Duct		Impinger	Ext	(F)	NA	•				>																
מֿ	Meter	ature	Outlet	£	2	0	Q	0)	-	=									1						-	+
	Dry Gas Meter	Temperature	Inlet	£.	47					>					-		-	-								
		Filter Pa	remperature 20		000	وا	56	25	54	53														-		
		Probe	Temperature		AN A					Ļ	-		1	•												
Minutes	Flue	SE .	lemperature Temperature Temperature		*2	7				Ş														·		
	Orifice		Oliferential	0.7	Ş	ρį	x,	ا بم	2,1	2											1					
Read and Record All Data Every	Velocity	7680	(In H2O)	4/1					4	7																
Read and Rec	Gas Meter	(#) W/	8	4.6	100	77	1.0.0	1 39. 5	4.4.1	- 1															•	
	Clock	(24-12)	09:24	09:29	AD 124	0:30	200.00	20.10	14.40	64.34		•														
	Time	(uju)	Q			Ī	T	Ť	22	000																
	Traverse	Point	Number	O AMGBOX	-			Ţ,		,						•										

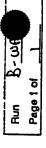
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Plant	DPC	Probe Length and Type	44	Helaht of Location (#)	114	
2.4.0	0.0			(11)	150	
Cale	5(3(Nazzle ID (in.)	∀ 2	Duct Dimensions (in)		
Sampling Location	BAUCBOY	Meter Box Number	V-13	Filter Number		
Sample Type	HC 1425	Meter AH@	47	Assumed Moistare (90)		
Run Number	B-WP-1	PX	1.004/ 02(%)	02 (%)	20	-
Operator	wpc	K Factor		CO2 (%)	5 <	
Ambient Temperature (F)	t/S	Probe Heater Setting (F)	417	O2/CO2 Method	1 2 0	
Barometric Pressure (in)	648 man	Heater Box Setting ("F)	~	Moisture Collected (a)	NA.	
Static Pressure (in H2O) ←/, S	5117	Intial Leak Check	0,01665"	0.01@ 5" Final Leak Check	30000	

uct		Pump	Vacuum	(in. Hg)		_			-															
Diagram of Duct		Impinaer	. <u>.</u>	(F)	AJA	-					>													
	Dry Gas Meter	Temperature	Outlet	E	ゲ	47	79	1	200	7 (2	4	ŀ												
:	Dry G	Tem	Ē	G)	_ く く	_			_	 -	<u> </u>													
		Filter	۳	E)	129	621	130	1,79	200	(2)	9													
		Probe	Temperature	<u>E</u>	MA	_				75.	*													
Minutes	Flue	Ge s	Temperature Temperature	£.	₹ <u>0</u>						*													
	Orifice	Pressure	Differential	AH (IN HZO)	1.2	1.2	1.2	211	7.7	1.2														
Read and Record All Data Every	Velocity	Head	ΔP	(In HZO)	₹2	_				1				-			•							
Read and Rec	Gas Meter	Reading	(\$) W/	7.36.30	76 ,3	466.1	471.1	476.0	480.9	485.77								•					-	
	Clock	Time	24-h	06.98	67:10	69:34	ભ:39	69:44	69:49	9:54												٠		
	Sampling 	- ime		34		9	To	20	25	38														
	,	Traverse	NOT NOT NOT NOT NOT NOT NOT NOT NOT NOT	Q A 4.7	2X 2X 2X					,	>						•							

Caren Star Closter HCHA- Kun 1 FIELD DATA

Plant	ا ا	Probe Length and Type	**	Helaht of Location (#)	47
Oste	12/2	Mosele ID As 1		(1)	
	10.00	NOZZIG IO (In.)	*	Duct Dimensions (in)	
Sampling Location	Baucloox	Meter Box Number	17-7	Filter Number	
Sample Type	M-26,65	GS1 Meter AH@	ΑQ	Assumed Moisture (%)	7
Run Number	A-WP-2009G	P.A.	O.9935	02 (%)	20
Operator	WPG	K Factor	47	CO2 (%)	
Ambient Temperature (*F)	8	Probe Heater Setting (F)	A/A	O2/CO2 Method	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Barometic Pressure (in)	Coff we	Heater Box Setting (*F)	125	Moisture Collected (a)	ACA.
Static Pressure (in H2O)	101+	Intial Leak Check	0.00 85"	O. 20 & S" Final Leak Check	100 6 K
				The state of the s	3

Read and Record All Data Every Minutes Sampling Clock Gas Meter Velocity Orifice Flue		Diagram of Duct	
Read and Record All Data E	6.01 854		The state of the s
Read and Record All Data E	CA Final Leak Check	Minutes	e Flue
Clock	Y C	cord All Data Every	elocity (
	Illinai Lean C	Read and Re	Cas Meter
Sampling	21		Clock
	()		Sampling

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t		G G	Vacuum	G. Ho.	0) 0	1	4	7!	10	7													
Diagram of Duct		Impinaer	ă	Ę	***	2			+	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	>											+		
<u>ត</u>	Dry Cas Motor	Temperature	Outlet	7947	Ç	36	27		<u>.</u> 1	2 >	9	•										+		
	200	Temp	Inlet	<u>.</u>	7					7	•												+	
		Filter	Temperature	SEC C	533	53	200	22	22	L. L.	?									-		1		
		Probe	Temperature Temperature Temperature	(F)	2	_				7	•													
Minutes	Flue	ŝ	Temperature	Ð	42				-		,													
	ifice	Pressure	Differential	AH (in H2O)	ક્યું!	3.	ω,	۵.	0	8	<u> </u>													
cord All Data	Velocity	Head	ΔP	(in H2O)	Ą ک																			
Read and Re	Gas Meter	Reading Head Pre	(fg) (m)	3.	5.5	11.1	(6,7)	27.27	37.6	-	1						•					-		
	Clock	Time	(24-hr)	16.3/	12:42	17:47	12:52	12:67	13.02	15.07			`											
	Sampling	Time	(WILL)			0)	<i>.</i> /S	8	52.	R														
		Traverse	N P	Noting a	なられ	1				\					-	•								

Comments:



Cones Star Cluster del B Pen 1

Run B - 65 Page 1 of

Plant	DPG	Probe Length and Type	1/4	Height of Location (ft)	A)A	
Date	3/31	Nozzie ID (in.)	₹2	Duct Dimensions (in)		
Sampling Location	BAWBOX	Meter Box Number	U-(3	Filter Number		
Sample Type	14-26 (65" Motor AH@	Meter AH@	V-(3	Assumed Molsture (%)	,	
Run Number	8-cop-2 with	PA	1,0046	02 (%)	21	-
Operator	who	K Factor	₹	CO2 (%)	C	
Ambient Temperature (F)	20	Probe Heater Setting (°F)	A.A.	O2/CO2 Method	P. S +	
Barometric Pressure (in)	648 mm	Heater Box Setting (°F)	[25]	Moisture Collected (g)	40	
Static Pressure (in H2O)	+1,5	Intial Leak Check	0.00 @ G	0.00 @ CF Final Leak Check	0.00@511	

Read and Record All Data Every Minutes

			DI PIM DES	משל ול מש		Millians						
ı	Sampling	S S S	Cas Meter	Velocity	Orifice	Flue			Dry G	Dry Gas Meter		
Iraverse	Time	Hme	Reading Head Pres	Head	Pressure	ŝ	Probe	Filter	Temp	Temperature	Impinger	Pump
Point	(min)	(24-hr)	νπ ([ε)	ΔP	Differential	Temperature	Temperature Temperature Temperature	Temperature	Inlet	Outlet	3	Vacuum
Number	a	12:37	987.50	(in H2O)	AH (in H2O)	(F)	Ð	E	<u>.</u>	6	£	(jr. Ho)
SAUGECK	Ŋ	12:42	492.3	¥a	1,2	47	477	137	AN	57	134	
	0	12:47	497.7	l	7,7		-	130	-	5	-	-
	. اگ	12:52	503.0		1,2	·		135		25		
	22	12:57	508.0		1,2.			123		7	-	-
	22	13:02	513		1.2			132		77		
	ž	13:01	518.33	A	-25	>		131	P	1/3	,	
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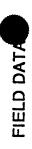
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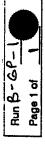
Plant	DIA	Probe Length and Type	477	Helaht of Location (#)	127
Date	3131198	Nozzie ID (in.)	イン	Duct Dimensions (in)	\$€
Sampling Location	BAyeno	Meter Box Number	11-12	Filter Number	かび
Sample Type	W-26	Meter ΔH@	₹2	Assumed Moisture (%)	1:4
Run Number	A- 14C1-GP-1	Pλ	75.99.0	02 (%)	10
Operator	wpe	K Factor	\ \ \\	CO2 (%)	1
Ambient Temperature (°F)	09	Probe Heater Setting (F)	ろろ	02/CO2 Method	7
Barometric Pressure (in)	849	Heater Box Setting (°F)	128	Moisture Collected (a)	されていた。
Static Pressure (in H2O) +1,5	+1,5	Intial Leak Check	5.0000	C.CO CO STIL Final Leak Check	San Coll
					- 602

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ct		Pump	Vacuum	(in. Hg)	٦	2	2	6	١	7	4							,											
Diagram of Duct		Impinger	ð	E)	₹ 2	1	_					⋛																	
Ο̈́	Meter	ature	Octet	E C		7)	2.1	00	10	0 2	7.7		•				1								+		-	+	+
	Dry Gas Meter	Temperature		£						+	+	4				-												+	
	i	Tile in	emperature	100	000	26	5.5	7.5	12		60																		
		Hobe	mperature is			1				1	 	7				-													
tes	Flue	8	remperature temperature		<u> </u>					- - -	+								_										
ry Minutes	Orifice	_		0,1	96	120	317	œ ~	03/7	0.7																			-
rd All Data Every	Velocity			十		+				-										•									
Read and Record All	Gas Meter Pending	Vm (fs)	0.00	5.6		1,7,7,7	1,91	21.	27.8	33.74											•						,		
	Clock	(24-hr)	1	-	14 . 77 . 30	+	+			14:47:30	╀																		
	Sampling Time	(min)					T			30																			
	Traverse	Point	Number	BANCAROY													•	-		•									

Comments:







Plant	£0,5	Probe I enoth and Tune	4	Majorta at 1 and 2 - 141	V
	21.5	edi nimingionesi.	2	I religint of Location (ii)	2
Date	3/31/98	Nozzle ID (in.)	₹2	Duct Dimensions (in)	₹. 2
Sampling Location	Bougloox	Meter Box Number	61-7	Filter Number	7√
Sample Type	W-26	Meter AH@	₹ \	Assumed Moisture (%)	₹ 2
Run Number	B- MC1-69-1	PA	1,0046 02(%)	02 (%)	12
Operator	ଧନତ	K Factor	λV	CO2 (%)	0
Ambient Temperature (*F)	09	Probe Heater Setting (*F)	∀ 0′	02/C02 Method	Am bient
Barometic Pressure (in)	8119	Heater Box Setting (*F)	125	Moisture Collected (g)	₹ 2
Static Pressure (in H2O)	カーナ	Intial Leak Check	0.00 @S"	0.00 @ S" Final Leak Check	0,000 5"

			Read and Rec	Read and Record All Data Every	- {	Minutes				i		;
	Sampling	Clock	Gas Meter	Velocity	Orifice	Flue			Dry G	Dry Gas Meter		
Traverse	Time	Time	Reading	Head	Pressure	Gas	Probe	Filter	Temp	Temperature	Impinger	Pump
Point	(min)	(24-hr)	(fg)	ΔР	Differential	Temperature	6	Ţ	Inlet	Outlet	蓝	Vacuum
Number	0	14:17:30	520.50	(in H2O)	AH (in H2O)	CĐ	ሮብ	(F)	(F)	Ð	æ.	(in. Hg)
BAWGACON	٧	14:22:30	525.8	ŊΑ	1,2	N.A.	NΑ	781	757	89	AU.	_
	٥	14:27:30	$\overline{}$	1	1,2	-		133	•	207		_
	72	14:32:30	536.0		1,2			134		1		7
	22	14:37:30			1.2			(32		72		
	25	14:42:30	546.6		2'1			131		73		_
→	30	14:47:30	551,98	\ 	7.7	\ \ \ !		136	\	73		,
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Page 1 of

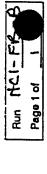
Plant	10PG	Probe Length and Type	λY	Helaht of Location (#)	4	
Date	1/17	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	17	(1)		
	-	NOZZIO ID (In.)	とう	Duct Dimensions (in)		
Sampling Location	BANGROX	Meter Box Number	= >	Filter Number		
Sample Type	M-26	Meter ΔH@	47	Assumed Moisture (%)		
Run Number / + C. C. A.	8-JM	λ	0 9935 0218	02 (%)	2-10	
Operator CHC.I A -	-TR-BRA KFactor	K Factor	4.4	CO2 (%)	>2	
Ambient Temperature (*F)	n On	Prohe Heater Setting PE	A	(c) 2000	٠	
		/ I Aumon tomorrows	1	OC/COZ MBINOD	temb len	
Barometric Pressure (in)	200	Heater Box Setting (°F)	いない	Moisture Collected (q)	K)A	
Static Pressure (in H2O)	+1,5	Intial Leak Check	0,00005	O.OO.O. (5' Final Leak Check	10000	
					うううい	

Minutes Read and Record All Data Every

	Sempling	1		ממן די		IVIII IUIGS						
ŀ	Bunding	S C C C	Cas Meter	Velocity	Orifice	Flue			Dry G	Dry Gas Meter		
raverse	em.	- Time	Reading	Reading Head P	Pressure	Gas	Probe	Filter	Temp	Temperature	Impinger	
inor :	E ((24-hr)	Vm (fb)	ΔP	Differential	Temperature	Temperature	Temperature Temperature	Inlet	Outlet	. <u>*</u>	
Number		02:20	800		AH (in H2O)	(°F)	(F)	J. F. Go	E)	Ę	(C)	
DAMBISOK	\ <u>\</u>	08:25	श्र	J.A	ŝ	47	よつ	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	47	α	X X	1
	9	08:30	11.6		9. 9.	_		575	_	0		1
	5	08:35	18.5		09			37.7	_	CC		ا ا
	30	07:80	22.0		00			77		00-		10
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Plant	200	Probe Length and Type	477	Height of Location (ft)	47	
Date	86/1/h	Nozzle ID (in.)	NA	Duct Dimensions (in)		
Sampling Location	BANGBOK	Meter Box Number	7-(3	Filter Number		
Sample Type	M-26	Meter AH@	かく	Assumed Moisture (%)		
Run Number HCI-	HCI+FB(E1919)	2	1,0046	02 (%)		-
Operator	WPE	K Factor	U ₹	CO2 (%)		
Ambient Temperature (°F)	40	Probe Heater Setting (*F)	NA	O2/CO2 Method		
Barometric Pressure (in)	645 mm	Heater Box Setting ("F)	[22]	Moisture Collected (g)	>	
Static Pressure (in H20) + [, S	+[:2	Intial Leak Check	0.00@5"	O.OO @ 5" Final Leak Check	6.0005"	

			Read and Rec	Read and Record All Data Every		Minutes						
		Clock	Gas Meter	Velocity	Orifice	Flue		i	Dry G	Dry Gas Meter		
Verse			Reading 1	Head	Pressure	Gas Probe Filter	Probe	E P	Temp	Temperature	Impinger	Pump
Number		(JU-47)	553,79	(in H2O)	Differential ΔH (in H2O)	lemperature (°F)	emperature (*F)	iemperature (*F)	inlet (T)	Cuttet C	ž E	Vacuum (in. Ha)
GROK	7		55.3.79	.NA	Ø	44	NA	127	JA	イグ	XX	С
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Plant	<i>7</i> 0℃	Proho I count out the	5,1	100	411	
	9	rione Lenguiana iype	2	Height of Location (ft)	2	
Date	411198	Nozzle ID (in.)	47	Duct Dimensions (in)		
Sampling Location	BALEBOX	Meter Box Number	V-1	Filter Number		
Sample Type	12711	Meter AH@	ママ	Assumed Moisture (%)	>	
Run Number HCI A-	4c1 A-WP-2	PA	0,9935		12	-
Operator	WPG	K Factor	そつ	CO2 (%)	0	
Amblent Temperature (F)	25	Probe Heater Setting (*F)	* キン	O2/CO2 Method	Aubient	
Barometric Pressure (in)	645mm	Heater Box Setting (*F)	125	Moisture Collected (g)	*2	
Static Pressure (in H2O)	ار ار	Intial Leak Check	0,0105°	C, CI @ S" Final Leak Check	12000°	

Pacading Head Pressure Cas Probe Filter Temperature Impinger Pump Duffer Temperature Impinger Pump Temperature Temperature Impinger Pump Temperature Pump Tempera	Sampling Clock	80	بج	Read and Rec	oord All Data E	rifice M	Minutes				Dry Gas Meter		
rential Temperature Temperature Inlet Outlet Exit nH20) The Control of the Contr	Time		Readin	CD	Head	ssure	Ges	Probe	Filter		erature	Impinger	Pump
1.8	n) (24-hr)	+	(원) (원)		A P	rential	Temperature	Temperature	Temperature	<u> </u>	Outlet	ĒŽĮ.	Vacuum
1.8 SS 1.3 1	5 09:39:30 5.5	1	5,50		25 Y		E Q	£ 7	\$ 15 C	-	£ 7	E 4	(in. Hg)
255 13 26 14 27 (14 28 (14) 28 (14) 29 (14) 20 (14) 21 (13) 22 (14) 23 (14) 24 (13) 25 (14) 26 (14) 27 (14) 28 (14) 29 (14) 20 (14) 20 (14) 21 (14) 22 (14) 23 (14) 24 (14) 25 (14) 26 (14) 27 (14) 28 (14) 29 (14) 20 (14)	10 10:03: 30 11,0		ρ'//		1	81	_	_	55	-	7/2/	-	1,1
\$\frac{56}{4}	-	-	17.5			1.8			58		13		7)
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Plant	⊅ P6	Probe Length and Type	AY.	Height of Location (ft)	47	•
Date	4/1198	Nozzie ID (in.)	\\\	Duct Dimensions (in)	₹n	
Sampling Location	Banchox	Meter Box Number	V-13	Filter Number	より	
Sample Type	W-26	Meter AH@	47	Assumed Moisture (%)	かり	
Run Number HCI B - 100-2	2-001	λd	1,0046	02 (%)	72	
Operator	122PC	K Factor	みひ	CO2 (%)	\(\)	
Ambient Temperature (F) 55	55	Probe Heater Setting (°F)	CA CA	O2/CO2 Method	Anbrenit	
Barometic Pressure (in) 645 Mux	645 Mm	Heater Box Setting (°F)	125 F	Moisture Collected (g)	み ひ	
Static Pressure (in H20) + 1.5"	+1.5"	Intial Leak Check	0.000 S"	ふめ らい Final Leak Check	<i>"</i> ,5@∞'¢	

			Read and Record	ord All Data Every		Minutes			•	á	Dagram or Duct	
	Sampling	Clock	Gas Meter	Velocity	Orifice	Flue			Dry G	Dry Gas Meter		
Traverse		Time	Reading	Head		Ses.	Probe	Filter	Temp	Temperature	Impinger	Pump
Point	2	(24-hr)	(ا ئا) سا	ΔР	_	Temperature	Temperature Temperature Temperature	Temperature	Inlet	Outlet	Ē	Vacuum
Number		01:53:30		(n H2O)	AH (in H2O)	æ	Ð	E	æ	(F).	G.	(in. Hg)
HAMBBOK	Ŋ	09:58:50		NA	(s.2)	ママ	4Q	141	NA	52	\$1.	
•		10:03:30			1,2	_	1	139		25	,	
	(5	10:08:30			1.2			136		13		_
	26	€; €1: 01			1.2			134		09		_
	252	10:18:30	580.0		1,2			(34		19		
	30	10:23:30	582.15	>	2.1	è	>	132	>	79		
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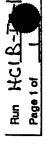
Plant	DRC	Probe Length and Type	ALA	Helaht of Location (ft)	47	٩
Date	4/1/98	Nozzie ID (In.)	₹ 0	Duct Dimensions (in)	42	
Sampling Location	Badock	Meter Box Number	V-!!	Filter Number	NA	
Sample Type	W-26	Meter AH@	47	Assumed Moisture (%)	70	
Run Number HC A	1A-IR-1	PA	A.935	02 (%)	21,	•
Operator	₩PG	K Factor	NA	CO2 (%)	C	
Ambient Temperature (F)	60	Probe Heater Setting (F)	UR	O2/CO2 Method	A. Sieit	
Barometric Pressure (in)	64(\$ Fm	Heater Box Setting ("F)	125	Moisture Collected (g)	1	
Static Pressure (in H2O)	+1.5	Inital Leak Check	C.co@5"	C.CO & S" Final Leak Check	" 20000	

Read and Record All Data Every

			ואם השמים שומו הפת			Minutes						
ı	Sampling	Clock	Gas Meter	Velocity	Orifice	Flue			Dry G	Dry Gas Meter		
Iraverse	Time	Time	Reading Head Pre	Head	Pressure	Se Se	Probe	Filter	Temp	Temperature	Impinger	Pump
	E L	(24-h)	Vm (f2)	Δ	Differential	Temperature Temperature Temperature	Temperature	Temperature	Inlet	Outlet	Ä	Vacuum
Number	O.	2 24:30	80,0	(in H2O)	AH (in H2O)	(F)	£	ST CO	Ę	10,00	Ę	(in Ho)
Xansmal	s.	(2:29:30	ورو	ヤマ	091	Ψ'n	40	53	1	9	Į Į	0,
	<u>0</u>	26:34:30	127	-	Ø.	-	-	48	-	9/	1-	0
	(5)	12:39:30	016		_ o€			53		17		10
>	200	12:44:30	からな		W			55		רַי		3/1
	25	05:34:21	33,3		XX.			(C.V		0		10
	30	12:54:30	13.75	>	a	7		42	د	00		10
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Comments:	ı											







Plant	DPC	Probe Length and Type	₩	Height of Location (ft)	424	٩
Date	4/1/98	Nozzie ID (in.)	かな	Duct Dimensions (in)	44	
Sampling Location	BAUGBOK	Meter Box Number	21-/	Filter Number	ΥN	
Sample Type	M-26	Meter AH@	Vγ	Assumed Moisture (%)	V	
Run Number HCI 8-1	72-1	Yd	1,0046	02 (%)	21	•
Operator	whe	K Factor	NA	CO2 (%)	٥	
Amblent Temperature (°F)	ଦ୍ର	Probe Heater Setting (F)	4 2	O2/CO2 Method	Au pient	
Barometric Pressure (in)	Lysam.	Heater Box Setting (*F)	125	Moisture Collected (g)	マク	
Static Pressure (in H2O)	41.5	Intial Leak Check	%S€00.0	の.cc 色 写" Final Leak Check	<i>"≲⊗∞</i> "⊚	

Cas Meter Velocity Reading Head F Vm (ff) AP D S92.0 (in H20) AF S97.1 603.2 611.11 V				Read and Rec	Read and Record All Data Every		Minutes					Diagram or Duct	5
Vincenting A Politication of the Control of the Con	Sampling Clock	5 6 5 F		Cas Meter	Velocity		en (10.0	Ü	Dry G	as Meter	1	 !
\$\frac{\cappa_{\text{CP}}}{\cappa_{\text{CP}}} \text{(in H20)} \text{CP} \te		(24-hr)	_		ΔP	Differential	Temperature	Temperature	Temperature	Talet Talet	Outlet		Vacuum
23		5.57:21	8	Š	(in H2O)	AH (in H2O)	£	£	£	Ð	(F)	<u>E</u>	(in. Hg)
\$97.1 1.2 \$608.2 \$601.2 \$	5 12:29:30	12:28	30	_	40		₹ 7	AC	125	NA	િત	₹ ?	
603,7 1,2 1,2 603,5 604,7 1,2 1,2 604,7 1,2 1,2 6,5 6,5 6,5 6,5 6,5 6,5 6,5 6,5 6,5 6,5	(0 12: 34:30	12: 34	:30	597.1	•		1	J.	127		ૂ	1	1
1	15 12:39:30	12:39	8	_		211			128		12		-
66 12.1 (1.2)	20 17:44:36	12:44	35			1.7			128		89		_
69 A 121 A 211 A 111119	25 12:49:30	64;21	3			œ,			121		69		
	30 12:54:30	12:54	30	$\overline{}$		1,2			(21	,	69		~
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TSP, PS-1, and PM-10 Flow Calibration Checks AEC and Dugway Tests March 1998

Sampler	Input E Volts	Input Equation Volts Conversion Drop Pressure Temp. Parameter (in wc) (etim Hg) (C)	I mis	Pressure Drop (in wc)	Bar. Presure (mm Hg)	Temp.	P/T Parameter	Slope	Slope Interept SCFM		DP Cambration Ornice Data Orifice Slope Intercept SCFM Error (in we)	Stope I	Slope Intercept	SCFM E	ror
PM-10-B	1.4	0.4	3	1.2	640	20	1.0059	17.66731	1.0059 17.66731 8.487616 26.25857	26.25857	1.8	23.04	1.2269 29.61057	29.61057	-11%
Maximum calibration error for BT, FA, HG, GB tests	or for BT,	FA, HG, GB tests	,												
PM-10-B	2.14	1.14	2.5	2.85	640	20	1.550	22.86507	1.550 22.86507 0.219797 35.66396	35.66396	2.65	23.04		1.2269 35.66627	%0
Calibration error for WP, GS, GP, and IR tests	, GS, GP, a	und IR tests													

cal_3.xls

Cal. checks

TSP, PS-1, and PM-10 Flow Calibration Checks AEC and Dugway Tests March 1998

	.11%	3%	4%	%	4%	%	6%	
Етгог	·							
SCFM	45.09679	43.80241	32.96081	5.491953	4.628914	5.318913	4.761878	
Orifice Dat	1.2269	1.2269	1.2269	0.0426	0.0426	0.0426	0.0426	
Calibration Orifice Data Slope Intercept	23.04	23.04	23.04	3.8308	3.8308	3.8308	3.8308	
Cal DP Orifice (ii wc)	4.3	4.05	2.25	2.4	1.7	2.25	1.8	
SCFM	40.24566		34.33936			4.877887		
Interept	-0.482855	1.334765	-3.472785	0.052409	-0.070617	-0.067066	0.032969	
Slope	22.17781	21.24739	44.93056 -3.472785	1.328689	1.221132	1.313398 -	1.255245	
P/T Parameter	1.8365	2.0583	0.8416	4.4607	4.0025	3.7650	4.0025	
Temp. P	20	20	20	20	20	70	70	
Bar. Pressure Ter mm Hg) ((640	640	640	640	640	640	640	
Pressure Drop E	4	5.025	0.84	23.6002	19	16.8125	61	
VoltiDP mverslm	2.5	2.5	-	6.26	20	6.25	20	
input Equation Velt.DP Volts Conversion	1.6	2.01	0.84	3.77	0.38	5.69	0.38	
Input E. Volts	2.6	3.01	1.84	4.77	1.38	3.69	1.38	
Sampler	TSP-A	TSP-B	PM-10-A	SVOC-A	DIOXIN-A	SVOC-B	DIOXIN B	

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APPENDIX II-K. LETTERS OF INSTRUCTION

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1.0 BANGBOX TEST OPERATIONS

This letter of instruction outlines the BANGBOX[™] (BB) test operations procedures that will be followed as a part of the BangBox test program at the U.S. Army Dugway Proving Ground (DPG). Facility requirements for test preparation, test procedures, and sequences of events are included.

2.0 TESTING DESCRIPTION

A series of tests will be carried out at DPG that will involve the detonation of explosive munitions and the burning of propellants. The Propellant, Explosive, and Pyrotechnic Thermal Treatment Evaluation and Test Facility, commonly known as the BangBox, will be used to contain the detonation or combustion cloud of test munitions in order to collect both gaseous and aerosol samples so that a complete characterization of their emission products can be accomplished.

3.0 RB TEST FACILITY STRUCTURE

Standing operating procedure (SOP) for the BB is contained in West Desert Test Center, Dugway Proving Ground SOP Number DP-O0O-P-85 1 with Change number 1 dated 4 October 1994. All personnel participating in BB tests are required to read and sign the Command Post (CP) copy of the SOP prior to test operations. This standing procedure complies with DPG and Department of the Army policies and procedures for test facilities and includes safety, security, and environmental hygiene issues. The BB SOP also details the operation and controls for the inflation system, which is the central system of the structure function.

3.1 Test Chamber

The BB test chamber wall is a flexible polyvinylchloride (PVC)-coated polyester fabric in the shape of a hemisphere sixteen meters in diameter. The chamber volume is maintained at approximately 1008 cubic meters by means of the BB inflation system which provides air pressure in the range of +1.1 to +1.5 inches of water column (in.w.c.) differential to ambient air pressure. The chamber serves to capture the clouds of detonated and/or burned energetic material emissions. The captured cloud is contained in the chamber, diluted at a controlled rate, and sampled over the period designated in the Detailed Test Plan (DTP). The sampling period normally extends from 35 to 60 mm.

The number of personnel in the test chamber prior to tests and between test trials must be kept to the minimum required to accomplish designated tasks, and then only for as long as necessary. Purging of the chamber atmosphere after personnel leave may be required to achieve 'background' conditions, especially for carbon dioxide (CO₂) gas.

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Discrete samplers are placed in the test chamber for collection of particulate matter for laboratory analyses. Samplers to be used are outlined in the test design test plan. All sampling equipment must be ready for test approximately 30 minutes prior to ignition or detonation.

3.2 Inflation System

The BB inflation system provides ambient air to the test chamber to maintain structure support and volume. The system is comprised of a primary and secondary blower and an emergency gasoline powered engine. The primary blower operates at all times. The secondary blower is activated in the event the primary blower is unable to maintain +0.75 in.w.c. differential to ambient air pressure. It is deactivated when the differential pressure achieves +1.0 in.w.c.. During periods of unsettled ambient conditions, such as gusting winds, the secondary blower is placed in the 'firm' position to operate simultaneous with the primary unit. The secondary blower can also operate in the 'firm' position to provide air pressure in the event of failure of the primary unit. The emergency engine is gasoline (unleaded) powered and activates in the event of loss of electrical power. It starts automatically upon power loss by a twelve volt battery powered starting motor and provides rotation of the secondary blower fan through a mechanical power linkage. The secondary blower then provides air pressure to the BB test chamber.

The operation of the inflation system controls and the emergency engine are tested every working day, including test days. Entries are made accordingly in the BB log, including observations regarding potential malfunction or requiring immediate maintenance.

In the event of loss of electric power service to the BB facility during tests, test personnel will stand clear of the facility to allow orderly operation of the emergency engine and controlled deflation of the test chamber if necessary.

3.3 Airlock

The BB airlock is an interlock passageway to achieve access to the test chamber in such a way as to minimize air pressure loss from the test chamber. This is accomplished by ensuring that no more than one inside or outside personnel or overhead door are open at the same time. All doors remain closed except for ingress or egress.

The BB airlock also serves as the sampling and continuous recording analyzers center. Continuous analyzers for criteria pollutants, toxic gases, PM₁₀ particulate, and discrete sampling in canisters are connected to the sampling manifold. Electric inputs to the data acquisition system provide information which is converted into useful data and engineering units.

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The airlock has a pressurization system that will be activated during sampling operations. This system provides sufficient internal air pressure to prevent sample gases under pressure in the test chamber from leaking into the airlock and contaminating instrumentation sampling processes or test personnel. The blower will be turned off during non-test conditions.

3.4 Burn Pad

The burn pad is located in the center of the BB test chamber and is constructed of steel plate. It is one square meter and lies flat on the floor.

Burning of test material is conducted by placing the material in a stainless steel burn pan and putting it on the burn pad. Preparation of test materials is performed only by qualified munitions personnel. Charges are weighed prior to ignition and the weight recorded. Munitions personnel are the last persons in the test chamber prior to firing, and the first to re-enter after the sampling period. They are responsible for the safety of ignition/detonation operations and insure the BB is evacuated before firing the test trial and that all is safe again prior to personnel re-entry of the test chamber.

After completion of each test trial the floor of the suppressive shield will be swept clean of residues using a foxtail brush and dust pan. Residue samples are then collected for analysis and the BB structure fabric and floor are cleaned, and made ready for the next test.

3.5 Overpressure Hatch

The hatch is a weighted trap door located in the overhead of the test chamber entryway which opens when a rapid overpressure occurs. This serves to protect the BB structure from stress rupture. Weights are available to minimize gaseous release by instantly returning the hatch to a sealed position prior to cloud mixing and commencement of sampling.

The hatch is also used to provide a passage to purge the test chamber of sample gases. This will be used whenever necessary during post test procedures to render the test chamber safe for reentry. It may also provide rapid purge prior to sampling to bring CO₂ concentrations down to background levels after test personnel complete sampler setup and exit the test chamber.

4.0 TEST EQUIPMENT

Test equipment requirements are established in the DTP. Analyzers, samplers, calibrators and support equipment will be ready in all respects to operate and set in place to comply.

4.1 Sampling Manifold

The stainless steel, polished manifold provides sampling ports for gaseous and discrete (canister) samplers. The manifold is configured to sample from both inside the test chamber and ambient (outside). It is internally swabbed clean with distilled and deionized pure water, then purged of residual gases with a nitrogen purge, and leak tested prior to sampling.

4.2 Real Time Analyzers

Calibration, sampling, maintenance, and quality control procedures for real time analyzers are contained in BANGBOXTM LOI 2.

4.3 Aerosol Samples

Samples are extracted to canisters from valve ports in the sample manifold. Specific requirements are contained in the DTP.

4.4 Particulate Samplers

Continuous monitoring and discrete sampling of particulate will be conducted. Total sample particulate (TSP) will be collected on specified media by high volume and PS1 samplers. Particulate measuring in the particle size range of 0-10 microns (PM₁₀) is monitored for concentration and weight and PM 10 particulate samples collected for analyses as contained in the DTP. BANGBOXTM LOI 2 contains calibration and sampling procedures.

4.5 Air Circulator Fans

High and low speed industrial air circulators will be operated in the test chamber. Fan locations and direction of flow are configured to provide maximum mixing of burning clouds in the BB test chamber. The BB facility manager and/or BangBox Test Director (TD) will ensure that fans are operating prior to personnel exit from the BB during sampling.

4.6 Heaters

Salamander type space heaters (electric) are located in the test chamber. These will be operated for temperature control or removed as necessary to support the DTP requirements.

4.7 Vacuum Pumps

Vacuum pumps are used for providing sample flow through the sample manifold, pressurized flow to the 'zero' air generation system, and sample flow to the PM 10 monitoring system. Flow volumes through these systems must be verified prior to and after testing with calibrated dry gas meters. Before and after test flow rate are compared to ascertain continuity and identify potential flow corrections to data.

4.8 Environment Instruments

These instruments provide measurements necessary to reduce data to standard conditions and units. Temperature, barometric pressure in the test chamber, relative humidity, and test chamber differential pressure will be recorded. Data is recorded in the data acquisition system (DAS).

5.0 DATA ACQUISITION SYSTEM

The DAS collects real time data for continuous analyzers, environmental measurements, samplers using flow devices, and other test inputs. The DAS is described in detail in BANGBOXTM LOI 3.

6.0 DETONATION/IGNITION FIRING SYSTEM (DIFS)

The Detonation/Ignition Firing System (DIFS) provides electric current for activation of ignition devices used to detonate and/or burn test munitions. This system is operated only by qualified munitions personnel and is the key' element to safe operations. Separate LOIs describe procedures for DIFS operations

7.0 COMMAND POST

The CP trailer is located approximately 540 meters from the BB. It contains the DAS file server, remote DAS monitors, the DIFS firing station, and a small work station for conducting test support. All personnel report to the CP prior to trial ignition and remain during sampling operations. Only necessary sampling and DAS test personnel are authorized to be in the BB airlock during sampling. The TD will monitor all test operations.

8.0 TEST MATERIALS

8.1 Portable Magazine

A portable, munitions storage magazine for holding munitions and donor charge material for the days testing is located approximately 500 m north of the BB.

8.2 Munitions Preparation Trailer

The munitions preparation trailer is used to weigh test materials and prepare the munitions and donor material prior to placement in the BB suppressive shield detonation/ignition chamber.

9.0 SAMPLE ANALYSES

Sample analyses will be conducted to meet the requirements of the DTP. Real time analyzers, environmental measurement sensors, high volume and other flow devices provide input to the

DAS for analysis. Discrete samples in canisters, on filter media, and residues will be submitted for laboratory analysis as specified by the DTP.

10.0 TEST OUTLINE

10.1 Sequence of Events for Sampling

A complete characterization test for each munition consists of an ambient background sample and three trials with each trial providing independent samples. The sequence of events is the same for both, with the exception that the background is without detonation or ignition of test materials.

10.2 Background Sampling

The same test procedures that apply to test material trials apply to background tests. Preparation of test equipment and test materials are contained in specific LOIs, DPG SOPs, and in the DTP.

10.3 Sequence of Events for Testing

Test preparations will be complete and the test facility ready approximately 60 minutes prior to ignition/sampling times. A typical test day would have trials as follows:

- 0730 BB test facility ready for test
- 0830 Begin test background sample
- 1030 Begin test trial #1
- 1230 Begin test trial #2
- 1430 Begin test trial #3
- 1530 Clean test facility for next test

Note: Some test materials may require cleaning the test chamber after every trial.

11.0 MASTER SEQUENCE OF EVENTS

11.1 Preparation Phase

The first test of any given test day is normally for background data to use as a baseline during data analysis. All required preparation items must be in place approximately 30 min prior to beginning data collection for backgrounds, or detonation/ignition of munitions test items. Preparation items that require lead or long lead times to accomplish must commence in sufficient time to meet this schedule. Responsibility for completion of preparation items is as specified, or reasonably implied by the DTP.

11.2 Pre-test

The following items must be accomplished prior to being 'ready' for testing:

- Sampling materials, including travel blanks, on site at BB
- All operators read and sign the current DPG BB SOP DP-000-P-851
- · Conduct daily safety briefing for all test personnel
- Munitions designated for the test period are available in the portable munitions magazine
- Specified scales and paper sacks are available in the munitions preparation trailer
- Medical services personnel are on site or standing by at Ditto Aid Station
- Clear area all non-test personnel depart BB and report to TD at GP
- Close Prime Road to non-test traffic place standard barricades at intersection of Prime Road and Stark Road and 300 yards north of the portable magazine
- Notify DPG Range Control office of road closure and BB test facility going 'hot'
- Proper fire symbol displayed while testing munitions items
- Red warning light ON when operating BB

11.3 Background Sample

Background samples are performed prior to test trials for each munition. The background test is performed with the same instrument and sampler requirements as a live test trial. The sample gas will be drawn from the sample manifold alternating between outside ambient source and inside test chamber source at five minute intervals. Background sampling will be conducted for a minimum of 35 min.

11.4 Test

Where there is conflict between instructions, provisions of the DTP will govern.

The list of events and times are subject to change before detonation or ignition. 'T' is the symbol that refers to the event of detonation or ignition. Times are given in minutes from this reference point.

The following is a typical series of events performed in a test sequence.

- Prior to T-60—Analyzers and samplers and data acquisition systems ready in all respects
- T-60 to T-15—Install sample media
 - Dry ice and coolers on site
 - Expendable items in place (filters, sample bottles, burn pans, etc.)
 - Check DAS display for anomalies
 - Check all vacuum pumps for performance
 - Sample line heater(s) operating
 - Prepare munitions for setup in BB
 - Brief BB visitors at BB
 - Real-time analyzers apparatus/flow checks
 - Sample line scrubbers in place and ready
- T-15 to T-5—Place munitions in BB
 - Munitions personnel complete material setup and exit test chamber
 - Purge BB to ambient gas levels
- T-5 to T—Close overpressure door (make sure proper weights in place)
 - Check closure of all doors
 - Start Hi-Vols, PS-1's, HiVol-PM-10's, circulating fans, heaters (if required)
 - Collect 6-L and 0.85-L samples
 - Record final background on DAS
 - Turn airlock pressurization system 'on'
 - Assure red light at BB is ON and flashing
 - Relocate all personnel to CP
 - Check that road barricade and placard are displayed

T

T+5

T+7

Detonation or Ignition from CP

Sample VOCs (inside and out), and SF₆

Sample SF₆

- T+19—Sample SF₆
- T+35—Sample SF₆

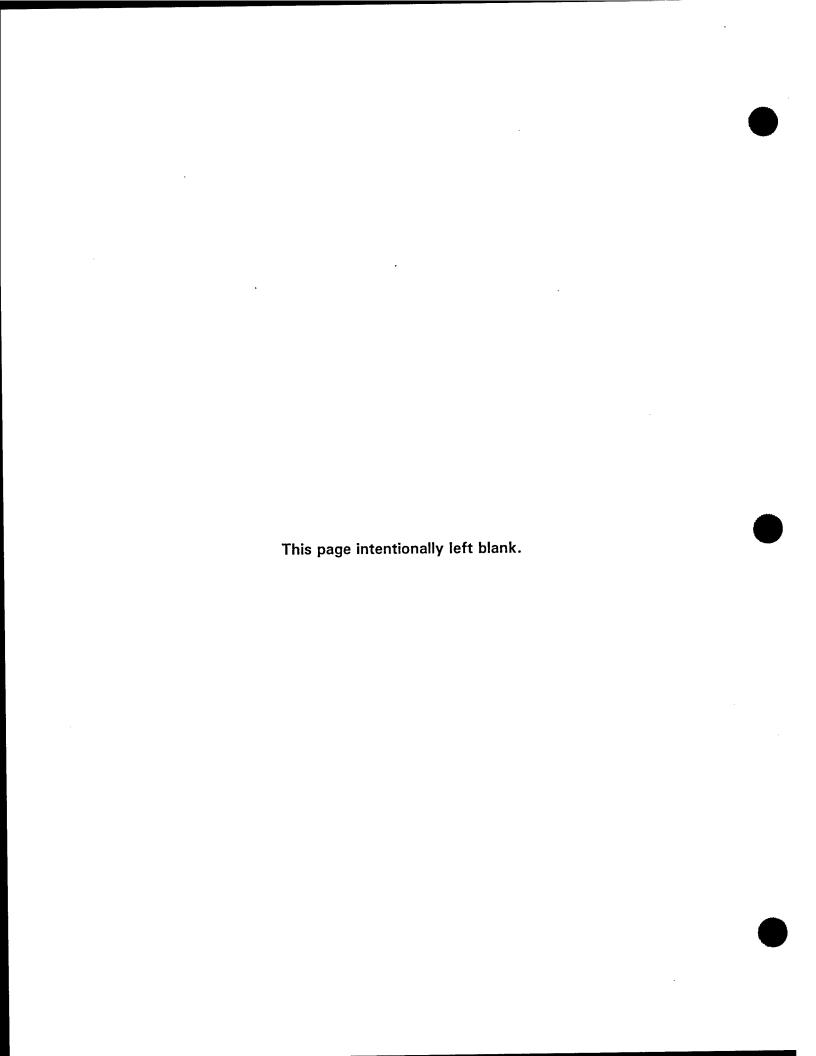
TRIAL #3

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- T+36—End of trial
 - Shut sampling off
 - Weapons personnel enter BB when safe gas level achieved
- T+37—Start purge of chamber to safe gas levels for entry
 - Weapons personnel declare BB entry permitted
 - Turn airlock pressurization system 'off
 - Sampling crew collect samples, check labeling and prepare for shipment to laboratories designated for analysis.

11.5 Post-test—Clean BB test chamber

- Open Prime Road by removing barricade
- Notify Range Control when the test facility is 'cold'
- · Turn OFF red flashing light
- Release medical personnel from the test site
- Remove fire symbols from test facility
- Complete logbook entries with date and signatures on each page
- Ensure BB and CP equipment is secure and doors locked
- Samples not shipped place in walk-in freezer at work center



1.0 OVERVIEW

1.1 Purpose

This letter of instruction specifies the BangBox Test Facility instrument suite for test operations. It includes calibration, sampling, maintenance and quality control procedures that will be followed as a part of the BangBox test program at Dugway Proving Ground (DPG).

1.2 Objective:

These instruments are used to obtain measurements of the concentrations (in ppb/ppm) of specified criteria gases in the air resulting from BangBox open burning/open detonation activities. A continuous flow of chamber air will be drawn through a sample manifold to the Continuous Emissions Monitors (CEM's). The CEM's provide a front panel digital output of the concentration level and real time voltage data to the data acquisition system for recording A real time data display from the converted analog value is also viewed on the Command Post computers.

1.3 Pollutants:

CO₂, CO, SO₂, HCl, NO-NO₂-NO_x, Cl₂/CN.

1.4 Sampling Location:

CEM's are located in the BangBox Instrumentation Building. Two heated sample manifolds, 12 feet in length, deliver the sample gases from the BangBox Test Chamber to the Instrumentation Building protected by a PVC tube enclosure.

1.5 Equipment:

Pertinent equipment includes the following: Thermo Environmental Instruments Model 15C - HCl Analyzer, Thermo Environmental Instruments Model 41C - CO₂ Analyzer, Advanced Pollution Instrumentation Model 200A - Chemiluminescent NO_x Analyzer, Advanced Pollution Instrumentation Model 100A - Fluorescent SO₂ Analyzer, Advanced Pollution Instrumentation Model 300 - Gas Filter Correlation CO Analyzer, MDA Toxic Gas Monitor, a 1" stainless steel sampling manifold (heated to 90 deg F, a ½" teflon sampling line (heated to 250 deg F), vacuum pump able to draw a minimum of 12 lpm through a ¼" line, Certified EPA Protocol Gases for each criteria pollutant, zero air source, and a gas dilution system.

1.6 Duration:

Three sample periods are specified 1) A 20 minute ambient air sample will be performed at the beginning of each test day. 2) Once the munitions have been loaded and all test personnel have exited the BangBox Test Chamber, the hatch is opened and equalization between ambient air

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and Test Chamber air must occur. This is checked by the CO₂ values. Once values are within 2 ppm, the BangBox is now considered ready for testing, the hatch is closed and five minutes of test chamber air will be sampled. 3) A minimum of 22 minutes of chamber sampling occurs after each detonation/burn has occurred.

1.7 Preparation:

Preparation for tests include the following steps: flow rate calibration of Gas Dilution System; routine maintenance checks; multipoint calibration on each CEM; linear regression analysis; MDA Toxic Gas Monitor calibration; daily pre-test and post-test span and zero checks.

2.0 INSTRUMENTS AND CALIBRATION

2.1 Flow Rate Calibration:

Flow rates are determined using a BIOS International DryCal DC-2 Flow Calibrator, a zero air generator, and a cylinder of High Purity Nitrogen Gas. The Nitrogen gas is connected to the pollutant gas input, the zero air is disconnected and the BIOS DryCal (Low Flow Cell) is connected to the gas output on the Gas Dilution System. A burst of 10 cycles is used to determine the Standard Flow Average. This is completed three times at each pressure for each valve combination. These values and the average of the three are recorded in the Gas Dilution System log book. The pressures used are from 26 to 40 psi in steps of 2 psi. This is repeated for the zero air (dilution gas), with the following changes; the DryCal Medium Flow Cell is used; zero air is connected to the air input; pollutant gas is disconnected and no valve combinations need be used. All data is also recorded in the GDS record book. The values resulting from this calibration are entered into an Excel Spreadsheet to determine concentration levels of criteria gases using different pressure combinations and valve combinations. These values are used to perform multipoint and span calibrations on each CEM.

2.2 Routine Maintenance Checks

Routine maintenance checks will be performed on each analyzer prior to the testing period. These protocols are found in the instruction manuals for each analyzer. All information will be recorded in the permanent bound record books for each instrument. The log books and the instruction manuals are located in the Instrumentation Building.

2.3 Multipoint Calibration

Multipoint Calibrations are performed to determine conversion factors for each CEM for analog data recorded by the data acquisition system. Separate multi-point calibrations will be done on each CEM using a NIST traceable, U.S. Environmental Protection Agency (EPA) Protocol at the start and completion of the test series. Note: Check gas cylinders to see if their calibration date has or will expire before completion of test series and log in log book that calibration date is good. The gas will be diluted to the working range of the instrument (outlined in the Detailed Test Plan). The GDS will interface with the CEM's through valve arrangements and provide

gases for dynamic calibrations. The sample gas will be delivered to the instrument through a Teflon in-line filter installed on the instrument inlet. At least five gas concentration levels will be generated and sampled with each instrument. The voltage response of the instrument is recorded from the Data Acquisition System. The conversions factors for the determination of the concentration levels from voltage output from the instrument will be determined by linear regression of the input concentration of the test gas against the measured voltage output for all test concentrations generated. The calibration response factors will be considered valid if the correlation coefficient (r2) of the regression is greater than 0.98. All calibration data will be recorded in the instrument record book.

2.4 Linear Regression Analysis

A linear regression analysis will be performed using Excel Spreadsheet or similar software. Expected concentration versus analog output values are entered to determine the best fit equation for each instrument.

2.5 MDA Toxic Gas Monitor Calibration

Calibration on the MDA Toxic Gas Monitor will be performed according to the instruction manual located in the Instrumentation Building.

2.6 Daily Span And Zero Checks

Daily checks on instrument performance will be carried out using a zero gas and a span gas with a concentration in the normal working range of the instrument. In the event that the recorded instrument output during a span gas check deviates from the expected output by more than ± 10 percent, the instrument will be checked and the problem remedied.

Following any significant repairs on the instrument, (note: all repairs are noted in log book) a multipoint calibration will be carried out prior to placement of the instrument back in service. Results from all daily zero and span checks will be recorded in the instrument logbook.

2.7 Special Instructions

All instruments will be turned on at least 12 hours prior to testing. The manifold heating systems will be turned on at least two hours prior to testing. The required temperatures of all sections will be verified through thermocouple readings on the data acquisition system.

3.0 BANGBOX[™] - REAL TIME GAS ANALYZERS CALIBRATION PROCEDURES

***This document should be read in its entirety before ***

starting the calibration procedure.

5 Steps to this process.

- 1. Flow Calibrations
- 2. Zero and Span Settings
- 3. Analyzer Calibration Procedures
- 4. Linear Regression Calculations
- 5. Span and Zero Checks

3.1 Flow Calibrations

Flow calibrations are performed every six months or when flow rates changes, whichever is lesser. All information for this section is recorded in the GDS Calibration Book

Equipment needed: The Gas Dilution System (GDS), BIOS Dry Flow Calibrator, 1 cylinder high purity nitrogen gas, zero air system (vacuum pump and scrubber system).

The first set of flow measurements are used to determine flow numbers for pollutant gases, the second set is used for dilution gases (zero air).

3.1.1 Pollutant Gases:

3.1.1.1 Preparation:

- 1. Open Excel document "flow" in folder "MyDocuments" on computer system. You will be logging data into this spreadsheet for flow rates for pollutant and dilution gases.
- 2. Mount Low Flow Cell on Dry Cal Base. Connect Rubber Tube from GDS Pollutant Sample Output to Dry Cal Inlet. Turn Unit On. Wait until menu appears and press enter to run. Unit is set up for bursts of 10 cycles.
- 3. Make sure the air pump is off so there is not any dilution pressure within the system.
- 4. Connect sample line from Nitrogen cylinder to pollutant input. Open pressure regulator on cylinder. Open Valves 1, 2, and 3 (valve in up position) on GDS. Turn pollutant pressure knob until pressure gauge reads 30 psi.
- 5. Press burst on Dry Cal for a burst of 10. The value that will be used for calibration is SAvg. After a burst of 10 has occurred, check that the average (SAvg) is consistent with previous flow calibrations in the GDS record book. If it is not within 10% of previous values, do the following:

If you notice that the SAvg values keep decreasing, it could be that the valves are clogged from running HCl through the lines when calibrating. A quick way to clear this is to turn the dilution air pressure up to a few psi and run the pollutant and dilution gas through for 3 bursts of ten. Shut off the dilution gas (air pump) and run an additional three burst of ten through the BIOS.

You should see declining (gradual) values (the air is being purged out of the entire system). Once you get stabilized values, analyze to see if they have changed and are back to previous values. If they are, continue with calibrations.

3.1.2.2 Calibration:

System is calibrated for pressures of 24, 30, 34 and 40. The valve combinations for each pressure setting are 123, 12, 13, 23, 1, 2, and 3. Three bursts of ten will be averaged for each valve combination to obtain the final value.

For each pressure setting (24, 30, 34, and 40) complete the following:

- Turn pressure knob to desired pressure setting. Do a quick release on the pressure (via pressure release knob) to ensure pressure gauge stays at the desired setting. Adjust if necessary and repeat. Open first valve combination and repeat the following for each combination:
 - Press single entry on BIOS to purge lines.
 - Press burst. A burst of 10 will happen. Enter the SAvg value as Flow1 in the "flow" spreadsheet. Press burst. Enter the second SAvg value as Flow2. Press burst. Enter the third SAvg value as Flow3. The spreadsheet will compute the average of the three values. This is the average standardized value that will be used for all further calculations. Steps a & b will be repeated for each valve combination. Units of measure are Standardized milliliters per minute (converted to standard temperature and pressure).
- Release pressure from line by opening pressure release valve on GDS. Open When finished: close pressure regulator on Nitrogen cylinder. Release pollutant pressure knob and shut valves 1, 2 and 3.

3.1.2 Dilution Gases (Zero Air)

3.1.2.1 Preparation

- a) Mount standard flow cell on BIOS Dry Cell unit. Turn unit on.
- b) Connect tubing from air scrubbers to air input line on the GDS.
- c) Turn vacuum pump on.
- d) Turn up air pressure knob until gauge reads 14 psig.
- e) Press burst on Dry Cal for a burst of 10. The value that will be used for calibration is SAvg. After a burst of 10 has occurred, check that the average (SAvg) is consistent with previous flow calibrations in the GDS record book. If it is not within 10% of previous values, there is a flow blockage and system must be troubleshot. If it is within 10%, continue with flow calibrations. . . .

3.1.2.2 Calibration:

System is calibrated for pressures of 14, 18, 22, 26, 30, and 34. Three bursts of ten will be averaged for each pressure setting to obtain the final value. Within the "flow" spreadsheet, there is a separate section for dilution gases. Make sure that you input data from the dilution flows into this section and not the pollutant flow section

For each pressure setting complete the following:

- a) Hit burst for a burst of ten. Enter the SAvg value as Flow1 in the spreadsheet.
- b) Hit burst. Enter the second SAvg value as Flow2.
- c) Hit burst. Enter the third SAvg value as Flow3.
- d) The spreadsheet will average the three values. If done manually (no spreadsheet) Add three values together and divide by 3. This is the value that will be used for all calibration equations. The following is an example for pollutant and dilution flow rates:

c:\mydocuments\flow

GDS Flow Parameters - Pollutant Gas

30	psi		
Flow1	Flow2	Flow3	STP AVG
Sml/m	Sml/m	Sml/m	Sml/m
91.28	91.28	91.36	91.31
76.85	76.83	76.84	76.84
56.69	56.66	56.73	56.69
48.94	48.93	48.93	48.93
42.08	42.11	42.14	42.11
34.31	34.25	34.26	34.27
12.28	12.34	12.29	12.30
	Flow1 Sml/m 91.28 76.85 56.69 48.94 42.08 34.31	Sml/m Sml/m 91.28 91.28 76.85 76.83 56.69 56.66 48.94 48.93 42.08 42.11 34.31 34.25	Flow1 Flow2 Flow3 Sml/m Sml/m Sml/m 91.28 91.28 91.36 76.85 76.83 76.84 56.69 56.66 56.73 48.94 48.93 48.93 42.08 42.11 42.14 34.31 34.25 34.26

Example for Pollutant Pressure: Enter values into columns 2,3 and 4 for flow rates. Column 5 (STP AVG) is automatically calculated.

GDS Flow Parameters - Dilution Gas

Variable Pressures

Pressure	Flow1	Flow2	Flow3	STP AVG
<u>Psig</u>	Sml/m	Sml/m	Sml/m	Sml/m
14	1629	1627	1626	1627.3
18	2210	2209	2211	2210.0
22	2760	2760	2761	2760.3
26	3285	3287	3284	3285.3
30	3887	3881	3882	3883.3
34	4512	4505	4502	4506.3

Example for Dilution Gas (Zero Air): Enter values into columns 2,3 and 4 for flow rates. Column 5 is automatically calculated.

Print the entire "flow" spreadsheet and tape pages into GDS System record book. When finished, complete the following:

- a) Open Excel spreadsheet document "calpoints" under folder "My Documents".
- b) Enter values into section "Data from flow calibrations" (on page one, at top of spreadsheet) from the pollutant and dilution gas calculations (calculated from "flow" spreadsheet). Do not make changes in any other part of the spreadsheet. All values are all calculated from data on page one.
- c) Make sure the concentrations for the EPA protocol gases match the concentrations in the spreadsheet. (Note: make suree that the certification hasn't expired.) Each new gas cylinder that we get has a different concentration level than the previous. Ensure that the Calibration Gas Concentrations from the EPA protocol gases have not changed. If they have, make the appropriate changes in the spreadsheet on page 1 (under Calibration Gas Concentrations).
- d) After changing the values in the top section of the spreadsheet, values in the resulting calibration concentrations will be changed. Do a spot check to ensure these values have changed and data is valid.
- e) Print the entire document and tape pages into GDS record book. These values will be used for calibration of the analyzers.

C:\mydocuments\calpoints.....page one of spreadsheet

Data From Flow Calibrations
Performed on 14 Jan 97

	<u>Pollutant</u>	Concentrations			<u>D</u>	ilution	Concentrations	
GDS Valve	<u>30 psi</u>	<u>34 psi</u>	<u>40 psi</u>	<u>24 Psi</u>		Pressure	<u>STP</u>	
<u>Comb</u>	Sml/m	Sml/m	Sml/m	Sml/m		<u>Psig</u>	Sml/m	
1,2,3	91.3	113.9	145.9	67.75		14	1627.3	
1,3	76.8	95.7	124.3	57.55		18	2210.3	
1,2	56.7	69.6	90.2	42.09		22	2760.3	
2,3	48.9	60.1	78.2	36.45		26	3285.3	
1	42.1	51.9	66.4	32.04	*	30	3883.3	
3	34.3	42.7	54.7	26.48		34	4506.3	
2	12.3	16.2	21.2	10.58				
Calibration G	as		CO ₂ -ppm	CO-ppm	NO-ppm	NO₂-ppm	sO₂-ppm	HCI-ppm
Concentration	าร		80700	3930	810	73.32	2 40.6	9890

Calibration performed by:

Example: only change values in this section. All other values will change automatically when these are . Sign form when finished.

14-Jan-97

Calibration Gas Dilution System (GDS) NuTech L/A07593 USEPA Property #07792 Unit #E-131

Calibration Standard

BIOS International, Dry Cal Flow Calibrator

Certificate of NIST (NBS) Traceability

GDS Parameters			alibration gas (pollutant) gaug	ge pressure	30		
		Z	ero air gas (dilu	uent) gauge pro	essure	18	8 psig	
GDS Valve	STP Flow	Ratio	CO₂-ppm	CO-ppm	NO-ppm	NO₂-ppm	SO ₂ -ppm	HCI-ppm
Comb.	Ave (10)	Ave/Total	80700	3 930	810	73.32	40.6	9890
1,2,3	91.3	0.0396681	3201.212	155.895	32.1311	2.9085	1.6105	392.3171
1,3	76.8	0.0335796	2709.877	131.968	27.1995	2.4621	1.3633	332.1027
1,2	56.7	0.025011	2018.390	98.293	20.2589	1.8338	1.0154	247.3591
2,3	48.9	0.0216448	1746.738	85.064	17.5323	1.5870	0.8788	214.0674
1	42.1	0.0186912	1508.378	73.456	15.1399	1.3704	0.7589	184.8557
3	34.3	0.0152811	1233.186	60.055	12.3777	1.1204	0.6204	151.1303
2	12.3	0.0055341	446.599	21.749	4.4826	0.4058	0.2247	54.7318
0	2210.3	0	0	0				

Example2: Resulting calibration spreadsheet used for calibration of analyzers.

3.2 Zero and Span Settings

For testing purposes, the analyzers are usually set to sample gas for a specific concentration range. The expected concentration range for each criteria pollutant should be obtained from the Detailed Test Plan. Before each analyzer can be calibrated for a specific range setting, the instruments must be "told" what a zero concentration gas is and a specified span (concentration) gas is. To do this, the analyzer must sample a zero air source/span gas source and the concentration that the analyzer outputs must be adjusted so it reads the appropriate concentration. This is accomplished using the analyzers internal zero and span settings. Specific instructions on how to do this are located in the manuals for each analyzer.

Zero and span settings must be performed for each range the analyzer will be set on. The following are quick and easy instructions.

3.2.1 Preparation:

- a) Most importantly, obtain the expected concentration levels from the Detailed Test Plan. You cannot change the range setting without redoing zero/span settings, calibration and linear regression curves.
- b) Make sure analyzers are turned on for a full hour before attempting to do any calibrations.
- c) Turn zero air pump on. Make sure output of scrubbers is connected to Dilution Gas Input on the GDS.
- d) Perform a zero setting and span setting for each analyzer consecutively. Do not attempt to calibrate more than one analyzer at a time. We have had problems with this before.
- e) Record all activities in the analyzer record books. Under no circumstances should any changes be made to an analyzer without recording it in this book. These are audited by EPA and considered official documents.

3.2.2 Zero Setting

- a) Set range thumbwheels on analyzer. Record this setting in the analyzer record book. (Range values differ for each analyzer. Use the instruction manual to determine what range corresponds to each setting)
- b) Turn appropriate valve off at the manifold for the analyzer you are going to work on. Disconnect sample line from manifold at the back of the instrument (input sample line).
- c) Connect output of GDS system directly to sample port of analyzer.
- d) Turn dilution gas pressure setting to 30 psig. Make sure valves 1,2 and 3 are shut and no pollutant gas is entering the system.
- e) Allow analyzer to sample zero air for 5-10 minutes or until the front panel reading has stopped fluctuating. (This does not mean that the analyzer will read 0.0 ppb/ppm, this will be accomplished in step 6)
- f) Once analyzer has stabilized, turn zero thumbwheels until front panel reading is approximately 0.0 ppm. Note: rarely does an analyzer stay stable at 0.00, it will normally fluctuate around that value.
- g) Allow the analyzer to stabilize for 5 minutes. Step 6 and 7 might need to be repeated a few times to obtain a good zero setting.
- h) Record the zero thumbwheel setting in the record book.

3.2.3 Span Setting

a) Define what 80% of the range setting is to determine the span value. Example: If range is set at 200 ppm, 200 ppm x .80 = 160 ppm. The span gas entered should be around 80% of the range limit. Look up the valve and pressure combination that will give a concentration close to the calculated span value.

Example:

GDS Parameter		Calibration gas (pollutant) gauge pressure Zero air gas (diluent) gauge pressure				30 psig 22 psig		
GDS Valve	STP Flow	Ratio	CO₂-ppm	CO-ppm	NO-ppm	NO ₂ -ppm	SO ₂ -ppm	HCI-ppm
Comb.	Ave (10)	Ave/Total	80700	3930	810	73.32	40.6	9890
1,2,3	91.3	0.0320171	2583.8	125.83	25.934	2.3475	1.2999	316.65
1,3	76.8	0.0270699	2184.5	106.38	21.927	1.9848	1.0990	267.72
1,2	56.7	0.0201278	1624.3	79.10	16.304	1.4758	0.8172	199.06
2,3	48.9	0.0174071	1404.8	68.41	14.100	1.2763	0.7067	172.16

If the range setting for the CO_2 instrument was set to 2000 ppm, 80% of this value would be 1600 ppm (2000 x .80 = 1600). Set pollutant gas pressure to 30 psig, and the zero gas pressure to 22 psig, and open valves 1 and 2. The calculated concentration is 1624.3 ppm. This would be the span gas concentration entered.

- b) Connect pollutant gas line from GDS system to appropriate gas cylinder. Open pressure regulator on gas cylinder, set desired pressure for pollutant and dilutant gases, and open correct valves. Output of GDS system should still be connected to analyzer.
- c) Let span gas enter analyzer for 5 minutes. Once reading has stabilized adjust span thumbwheels until the instrument reads approximately the same value as was calculated.
- d) Let instrument stabilize for an additional 5 minutes. Make adjustments as necessary.
- e) Record span thumbwheel setting in the analyzer record book.

At this point you can either continue on to perform a full calibration on the analyzer, or you can perform zero and span settings on the rest of the instruments. The order does not matter as long as each analyzer is zeroed, spanned and calibrated.

3.3 Analyzers Calibration Procedures

Calibration procedures are performed to obtain data to determine the relationship between voltage level and concentration for each analyzer. The basic concept is to perform an 8 point calibration, which gives us eight points to obtain the best linear fit equation. These eight points should be evenly spaced between the zero level and the top of the range. For example, if we are calibrating the CO2 instrument for the 2000 ppm range, we would like to input eight concentrations of gases between and including 0 to 2000 ppm. The zero point must always be included as it provides the offset for the linear equation.

When: A full eight point calibration should be performed on each analyzer at the beginning of the test period and at the end. It is important that the equations match for these two calibrations to ensure that the analyzer was not out of calibration for the testing period. It can also be used as a tool for troubleshooting analyzer problems. If any kind of maintenance is performed on an analyzer, the full eight point calibration (along with span and zero settings) MUST be redone.

Eight evenly spaced concentrations for the 2000 ppm range:

0, 285, 570, 855, 1140, 1425, 1710 and 2000 ppm.

Note: Rarely will you go to the calibration spreadsheets and find the exact concentrations you are looking for. Try to use values that are within 10% of those you have calculated.

3.3.1 Procedures for calibration:

- a) Calculate eight evenly spaced concentrations for the range you are calibrating.
- b) Write the following information down in the record book in column form.

Time	Pressure	Valve	Calculated	Analyzer DAS %diff
	comb.	Comb	(ppm/ppb)	ppm/ppb) (v)

Go through the concentration spreadsheets to determine what pressure and valve combinations will provide the closest concentrations to the eight calculated values from above and fill out the following entries for each point (in descending order):

Pressure comb: The pressure combination is written down as pollutant gas pressure/dilutant gas pressure. Ex. 30/18 is equivalent to 30 psig for pollutant gas and 18 psig for dilutant gas.

Valve comb.: Write down the valve combination that corresponds to the concentration level. Ex: from previous CO₂ example, it was found that 30/18 pressure combination with valves 1 and 2 on would give 1624 ppm. The valve combination is therefore 1,2.

Calculated: Write down the calculated concentration level from the concentration spreadsheet. Also include whether it is ppm or ppb.

***Remember, zero should be the last point. This is important because of the priming effect on the sample lines.

You are now ready to start calibrating. Hook up the pollutant gas and turn the pressure regulator on, turn on the zero air pump and get ready to go. Perform the following steps for each concentration point:

- a) Ensure that the output of the GDS is connected to the sample port of the instrument being calibrated.
- b) Turn the pollutant pressure knob until the pressure gauge reads the required pressure. Lift the pressure release knob and release to ensure that the pressure reading stays at the same point.
- c) Turn the dilutant pressure knob until pressure gauge is at the required pressure level.
- d) Turn the required valves on.
- e) Let the instrument sample the gas for a full five minutes or when it reaches a stabile value, whichever is greater. Record the following data in the record book:

Time: write down the time that you are taking the stabilized reading.

Analyzer (concentration): write down the front panel concentration reading.

DAS: Write down the voltage level from the DAS system. This will most likely be viewed in a LabView program. Talk to the computer programmer to obtain the program name.

% diff: This is the percent difference between the calculated concentration and the instrument reading. Calculated by:

 $%diff = \frac{calculated - instrument}{calculated}$ x100

f) Repeat for each of the eight data points.

Note: No pollutant pressure is used for the zero point.

When finished with the eight point calibration, take an average of the % diff. If you end up with an average of greater than 8%, then the instrument must be respanned and recalibrated. As you are going through the calibration, analyze the values as you write them down, if there is a consistent error, you should stop the calibration, respan the instrument and start over to achieve the best results. For example, if the first four readings are consistently 20 ppm lower than the calculated concentration, most likely there was an error during the span setting. Try respanning with a different pressure combination or valve setting and ensure that the pressure readings are accurate.

3.3.2 Special Notes:

The HCl and SO₂ analyzers are the most difficult to calibrate because the sample lines need to be primed. The analyzer must "settle" for a full five minutes before adjustments are valid. It tends to fluctuate by a few ppm. Do not worry, this is normal.

The SO₂ analyzer has zero and span potentiometers instead of thumbwheels.

The NO_x analyzer has three outputs, NO, NO₂ and NO_x, although the analyzer is calibrated with NO. The NO₂ cylinder of gas is used to ensure that the instrument is converting properly. Follow the eight point calibration procedure to obtain a linear regression for this channel also.

3.4 Linear Regression Analysis

Linear regression analysis is performed to find an extremely accurate relation between DAS voltage levels and concentration level. This part of the process is very important.

a) Open a blank Excel spreadsheet. You can name it linear#. An example spreadsheet can be found in folder MyDocuments called linregress.

b) A linear regression curve must be done for each analyzer. This is official data, so make sure you pay attention when doing these steps. The best idea is to create a separate sheet or page for each analyzer within the file.

Do the following for each analyzer:

I. Fill out the headings like the example below. Input all eight data points in the two columns. This information is obtained from the analyzer record book from the calibrations done in the previous section. The following show example data from an eight point calibration on the SO₂ Analyzer.

SO₂ Linear Regression Analysis Performed by Lisa Diamanti On Feb 11, 1997

DAS	Calc.
<u>(v)</u>	conc. (ppm)
0.964	1.989
8.0	1.61
0.689	1.363
0.505	1.015
0.384	0.759
0.251	0.498
0.121	0.225
-0.003	0

You now have all the data required to perform a linear regression analysis on the preceding data. Voltage is your "X" series, concentration is the "Y" series. From the linear regression we want to obtain an equation in the form of y=mx + b,

where y = concentration m = voltage coefficient x = voltage b = offset

This will give us the linear relationship between the voltage level and concentration. This information will be given to the computer programmer so that during the tests real time concentration levels can be viewed in the command post. It is also given to the agency that will be compiling all data for reports. The following describes how to do a linear regression using Excel spreadsheet.

From the Tools menu, click on Data Analysis. At the new menu (Data Analysis) click on Regression. A regression menu will appear. Fill out the following entries:

Input Y Range: This is the concentration data points. Click and drag over the eight points and the range will fill in automatically.

Input X Range: These are the voltage data points. Click first in the input x range data box, then click and drag over the eight data points for automatic

Output Range: Click on the circular button that allows you to input data. Click on the data box and enter a value (or click on a box in the spreadsheet) below your data range (make sure it is not in your data range, otherwise the output will overwrite the data you have entered). The following will appear:

SUMMARY OUTPUT

-					
Regression Statistics					
Multiple R	0.999587				
R Square	0.999175				
Adjusted R Square	0.999037				
Standard	0.021486				
Error	_				
Observation	8				
S					

ANOVA

	Df		SS	MS	F	Significance F
Regression		1	3.35357	3.35357	7264.303	1.76E-10
Residual		6	0.00277	0.000462		
Total		7	3.35634			

	<u>Coefficients</u>	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	<u>-0.01577</u>	0.013471	-1.17083	0.286059	-0.04873	0.01719	-0.04873	0.01719
X Variable 1	<u>2.043971</u>	0.023982	85.23088	1.76E-10	1.98529	2.102651	1.98529	2.102651

The main items you are looking at are:

Regression Statistics: Insure that the R square value is above .98

Coefficients: Intercept and X Variable 1. These are the numbers you will need for the linear equation.

For equation: y = mx + b b = Intercept m = X variable 1

From this example, the equation for the SO₂ analyzer would be:

 SO_2 concentration (ppm) = 2.04 x (DAS voltage) - .016

Repeat this for each of the analyzers. Write down the results in each analyzer record book.

3.5 Span And Zero Checks

Span and zero checks are used as a tool to check if an analyzer is maintaining it's span and zero settings, or if it drifts. These should be performed on the analyzer once a week during nontesting periods. During a testing cycle, this MUST be performed before the start of a test and after the end of the last test DAILY. The procedure is similar to span and zero settings, except no adjustments will be made to the analyzer. If an analyzer has drifted and the difference is greater than 10% from the expected concentration, you must redo the span and zero settings and a full calibration (with linear regression). This must be done on each of the instruments being used for the test.

To perform this procedure, do the following:

- a) Connect the sample port of the analyzer up to the output of the GDS system. Turn air pump on for dilution gas. Connect pollutant input (GDS) to appropriate EPA Calibration Gas.
- b) From the analyzer record book, determine what concentration was used for the span setting. This will be the same concentration you want to use for a span check.
- c) Put the following entries down in the analyzer record book and fill them in as you do a span and a zero air check. Make sure you date each page and sign the bottom. These are official documents.
- d) Perform the zero air and span level check.

Zero/Span Check

Today's Date

ZERO Zero Pot: Analyzer: DAS: Time:	(thumbwheel setting) (instrument reading after zero air entered) (voltage from DAS) (time that reading was taken)
SPAN Span Pot Pressures: Valves: Calculated Analyzer DAS Time %diff	(span thumbwheel setting) (Pressure setting, pollutant/dilution) (valves that are open) (calculated concentration) (Analyzer response, front panel reading) (DAS voltage) (time that reading was taken) (difference between calculated and analyzer)

Sign name when finished!!

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1.0 DATA ACQUISITION SYSTEM

This document outlines the data acquisition system (DAS) operation, calibration, and data filing procedures that will be carried out as a part of the BANGBOX test program at Dugway Proving Ground (DPG). A description of hardware/software components, wiring, data storage formats, calibration and operation procedures are included, providing a detailed Instructional guideline of the steps that will be used to gather and validate data taken from the test instrument suite.

A series of tests will be carried out at DPG that will involve the burning of propellants and detonation of explosive munitions. The Propellant, Explosive, and Pyrotechnic Thermal Treatment Evaluation and Test (PEP-TTET]) Facility, commonly known as the BangBox (BB), will be used to contain the detonation or combustion cloud in order to collect both gaseous and aerosol samples so that a complete characterization of the emission products can be accomplished. The BB DAS collects real-time data from continuous gas and particulate analyzers, sample gas flow data from discrete gas and particulate samplers, and pertinent environmental sensor Information.

2.0 COMPONENT DESCRIPTION AND INTERFACE

2.1 Basic System Elements

Five computer systems connected to a BangBox local area network (LAN) comprise the basic system elements. Two computers located in the BangBox instrumentation building provide for calibration of the CEMs and data acquisition and command and control functions respectively. Two workstations, located at the Command Post, provide for remote command and control of the DAS or allow for observation only; depending on the client software that is used (Normally, one station is configured for command and control and the other for observation only). The fifth computer is the server.

2.2 DAS Hardware

The computer systems in the BangBox instrumentation building and those located at the CP communicate by using fiber-optic cabling. A l0 base-T hub at each location fitted with a l0 base-FL transceiver provides a reliable high-speed data link. All data is passed digitally over the Ethernet link. In the BangBox instrumentation building, the DAS is connected to a National Instruments SCXI chassis which is the external acquisition device that interfaces the

DAS to the test instrumentation suite. The temperature, pressure, humidity, criteria pollutant instruments, toxic gas analyzers, and particulate samplers have data lines leading to this computer.

2.3 Voltage Output Instruments

Direct voltage outputs are provided by the continuous analyzers such as the criteria pollutant instruments, toxic gas analyzer, ambient PM_1 , particulate monitor, and environmental pressure and barometric pressure transmitters.

A voltage divider in the Firing Line, which is wired in parallel to the ignition device, provides for the detection of detonation and time zero reference for the DAS.

2.4 DAS Software

LABVIEW version 4.0 is the software used for polling each sampling channel at scheduled intervals, and for storing and transmitting this data.

Data is displayed and control of the system is made possible using client software developed specifically for the BangBox using LABVIEW. Both converted and raw data may be viewed or stored at any computer that utilizes this software.

3.0 OPERATIONAL PROCEDURES

3.1 Pre-Test

Two days prior to testing, the system will be activated, which will generate data files containing one hour of data for each file Operation. Acquisition will only be stopped prior to the end of the test series in the event of malfunction or miscalibration of test instruments. Acquisition will be resumed promptly following setup changes or hardware repairs.

3.2 Post-Test

A copy of the active configuration files will be placed with the data files for each trial. At the conclusion of each test day, files for that day will be copied to a removable disk cartridge for transport. The data stored on the data acquisition computer will be maintained throughout the test cycle pending available disk space. At no time will data be deleted from this machine without concurrence of the DPG Test Director (TD) and with sufficient verified backups in place. At the end of test, a compact disk containing all data will be produced.

4.0 ACQUISITION SYSTEM CALIBRATION

4.1 Frequency

The performance of the data acquisition system will be checked against a voltage standard annually certified one month prior to the onset of the test.

4.2 Analog-to-Digital Conversion

Each data channel physically connected to a sensor or test instrument will be checked for voltage accuracy and linearity. The data acquisition system will be used as a voltage injector that will be attached to each channel in parallel with a digital voltmeter (DVM) that has been calibrated and certified to meet manufacturer specification. Ten readings will be observed by the DVM and that of the acquisition system, then logged and entered into a regression table. Accuracy within a tolerance of plus or minus two percent of range and regression parameters with an R squared of 0.995 or greater will be acceptable.

4.3 System Integrity

Total system integrity will be checked by verification of proper voltage signals on the data files written by the system.

5.0 DATA FILE FORMAT

5.1 Sampling Interval

The DAS sampling Interval is set to a one-second interval, allowing for the greatest degree of resolution for all instruments. A typical 45-minute sampling time for each trial will contain approximately 2700 data points per data channel.

5.2 Data Files

Each data file will be arranged by row and column of ASCII formatted floating point numbers. Each row will contain all samples for a given time interval and each column will contain all data points for one specific acquisition channel. Each row is also time and date stamped. Each file will contain a header indicating when the file was initially created, the sampling interval, what the file represents, and what each column of data represents. Each column of data will represent the raw voltage data from a particular test instrument or sensor and the converted data from each instrument in scientific units.

5.3 File Names

The file names will be assigned to the DAS using a sequence number to insure that no data files are created that matches a previous file name causing data to be overwritten.

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5.4 Data Transfer

When data is transferred to removable compact disk, a directory structure will be created using Julian dates for names. All files belonging to a trial will be copied into the directory specified by the trial name.

1.0 BANGBOX EXPLOSIVE DETONATION AND MUNITIONS DESTRUCTION TRIALS

1.1 Munitions Designations for Trials

1.1.1 Explosives

The explosives to be detonated will be prepared as surrogates designed to represent munition loadings in the demilitarization inventory. Modifications to this LOI may be made if specific munitions are tested

1.1.2 Munitions for Burn Tests

Specific munitions previously detonated with a detonation/initiation train will be initiated and destroyed by exposing them to the flame of a natural gas or propane burner. The burner will be remotely actuated.

1.1.3 Blasting Caps

Exploding bridge wire blasting caps are most desirable for all munitions trials because of safety. However in the present trials, electric blasting caps will be used. When ignition only is necessary, electric squibs with additional powder may be used.

1.2. Support Material

1.2.1 Single Explosives

Explosive charges will be detonated in the open in the BangBox. All charges will be contained in light polyethylene film packages and will be secured and mounted with non-metallic filament or string. The only metal present will be the blasting cap shell which will be consumed in the detonation. No other metal than the blasting cap leads will be used,

1.2.2 Explosive Charge Location

All explosive charges will be located at least 1 m above the floor of the BangBox, and centered over the firing pit cover. This cover may be covered by a metal plate to prevent the fireball from contacting the epoxy paint on the cover.

1.2.3 Mounting

The individual explosive charge will be suspended from a stand prepared from angle iron welded to a base plate, which plate will be inserted under the pit cover. The charge will be mounted horizontally by monofilament line or cotton string from the top ends of these angle iron stands.

1.3 Munition Burns

Selected munitions previously tested will be destroyed by heating over a burner placed in the lower part of the detonation firing pit. This simulates the destruction in the field by simple furnaces.

1.3.1 Multiple Munitions

Several pieces for each munition may be tested in the same trial as determined by the PEP content of the individual munition.

1.3.2 BangBox Protection

The BangBox will be protected from munition travel, when it is actuated by the flame, by placing at least one layer of an expanded metal screen over the top of the pit where the burner is located.

1.3.3 Burner Actuation

The burner in the pit will be remotely actuated including both the release of gas to the burner and the ignition of the flame.

2.0 EXPLOSIVE AND MUNITIONS PREPARATION

2.1 Identification

All explosives and munitions tested in the BangBox will be identified and all lot and other numbers will be recorded. This identification will also extend to aluminum, ammonium nitrate and other additives used in surrogate mixes.

2.2 Casing Removal

The munitions will be removed from the external casings or packaging before mounting for detonation trial. All packing material will be removed completely from the BangBox and disposed of in accordance with established DPG procedures.

2.3 Explosives and Munitions Handling

2.3.1 Personnel

All explosives and munitions will be handled only by qualified personnel.

2.3.2 Safety Devices

No munitions will be used unless all personnel protective devices are in place.

2.3.3 Initiation

2.3.3.1 Mode

Wherever practical the explosives and munitions will be initiated in the precise manner for which they were designed unless otherwise specified by the test officer. In no instance will the munitions be initiated in a manner which will endanger personnel.

2.3.3.2 Remote operation

All explosives and munitions will be remotely initiated.

2.3.3.3 Modification

Methods of initiation may be modified as needed to assure that the explosives and munitions will function correctly when remotely initiated.

2.3.3.4 Alternate Methods

Munitions is to be tested by burning procedures will be tested under separate and distinct LOI.

3.0 MUNITIONS CONTAINING MORE THAN ONE EXPLOSIVE CLASS

3.1 Definition

These include any explosives and munitions where high explosives and/or propellants and/or pyrotechnics are present in the same munitions.

3.2 Safe Procedures

No munitions under the definition of 3.1 will be tested in such a manner that one or more of the materials will not be completely consumed.

4.0 INITIATION

4.1 Preparation for initiation

4.1.1 Procedures

Procedures will be established for each specific explosive or munition and approved by competent authority.

4.1.2 Personnel

Only competent designated personnel will arm charges. All other personnel will be out of the BangBox area before arming and will not return.

4.1.3 Interlocks

Firing circuits will have interlocks which keep firing lines short circuited and de-energized. This interlocks will only be opened at a remote location. Only personnel responsible for firing circuit operation with have keys and authority to complete arming and firing of the munitions.

5.0 POST BANGBOX DETONATION PROCEDURES

5.1 Initiation Failure.

Failure to initiate will be treated as a misfire or unforeseen mishap and will be handled in accordance with DPG and WDTC standing operating procedures (SOP).

5.2 Inspection

Designated persons will inspect the BangBox after the detonation is completed in accordance with DPG and WDTC SOP. No other personnel will enter the BangBox until it is cleared.

5.3 Personnel Access

Further post detonation access to the BangBox will be as designated by the Test Officer.

6.0 ACCOUNTABILITY

6.1 Records

All pertinent data will be recorded for each test including explosive type, munitions type, method of support, method of initiation, and observations.

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6.2 Compliance to LOI

Quality assurance/quality control procedures will be established to assure compliance with this LOI.

7.0 ADDITIONAL REFERENCES

West Desert Test Center and DPG references relating to the detonation of munitions modified as necessary for BangBox testing. Any instructions in conflict with these references will be resolved before proceeding with the test.

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1.0 BANGBOX M110 ARTILLERY SIMULATOR DETONATION TRIALS

1.1 Test Preparation

The Test Officer will obtain the fuel filler for the M110 that is to be used for the test.

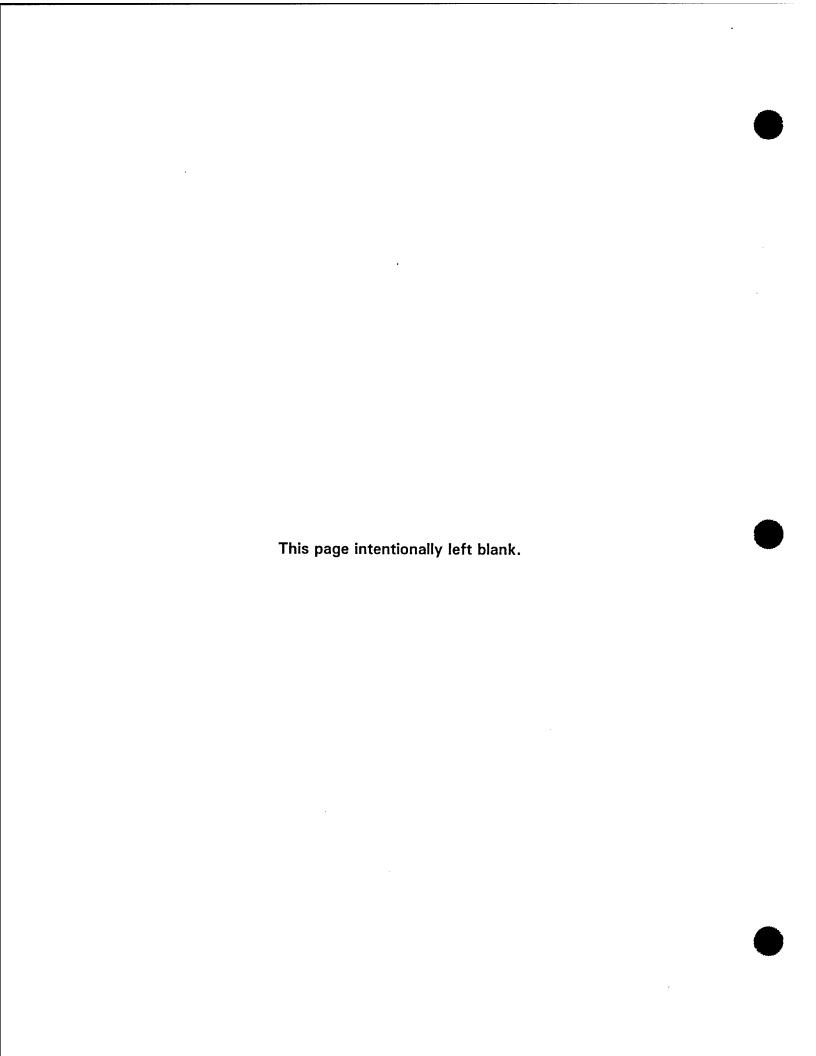
The munition handlers will fill the fuel well of the M110 in the preparation bunker prior to movement to the BANGBOX.

Any fuel spills or leakage will be thoroughly cleaned and allowed to air dry before the device is moved to the BANGBOX for detonation.

The Squibb (Provided with the M110) will not be installed into the fuse-well of the device prior to set up in the BANGBOX.

2.0 DETONATION OF THE M110 ARTILLERY SIMULATOR

The M110 Artillery Simulator will be detonated IAW LOI 29 Section 4.



1.0 TRIALS UTILIZING THE BANGBOX MECHANICAL INITIATION JIG

The Mechanical Initiation Jig is used to remotely simulate actual field initiation, or ignition, of a variety of test items. The items tested on the Jig roughly fall into one of the following categories: Trip Wire initiated, Pull String initiated, and Hand Held devices.

The Munitions Handlers will be thoroughly trained on the use of the Mechanical Initiation Jig prior to any test that utilizes one or more of the Jig configurations.

An ORI will also be conducted prior to any testing to insure the completeness of the training and to resolve any problems that may arise.

Preparation of the Mechanical Initiation Jig (Hereafter referred to as the Loom)

Prior to actual loading of munitions into the Loom, the following steps must be taken:

- The striking arm must be locked into the full upright position.
- The safety bolts must be put into place on either side if the striking arm.
- The computer control for the actuating solenoid must be placed in safe.
- The Firing Line safety shunts must be in place.

Each type of munition has a unique mounting device specifically designed to hold it securely in the Loom. The munition may be mounted in or on the appropriate device prior to installation. Pre-mounting will be done in the Munitions Prep Bunker. The loaded device will then be moved to the BANGBOX for the Loom installation.

1.1 Munitions Mounting Devices

1.1.1 Trip Wire Initiated Devices

The Trip Wire Devices are mounted on a "Burn Hardened" 2 x 4 that has been modified for use in the Loom.

Each device will be mounted utilizing the mounting hardware that came in its package. The 2 x 4 will be pre-marked to properly space each device for maximum efficiency in the Loom.

The 2×4 is mounted in the Loom at a height that allows the trip wires to extend perpendicular to the two tension bars.

The trip wires are then attached to the corresponding screws on the base of the Loom.

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1.1.2 Draw String Initiated Devices

The Draw String Devices are mounted in a tray that is one inch deep and four inches wide. The tray is constructed of 1 x 4 pine that has been lined with stainless steel and then mounted on a 2 x 4 that has been modified for mounting in the loom.

A clamping device made of 2 x 2 pine is used to secure the devices in the tray.

The draw strings on the devices is not long enough for normal operation in the loom. Therefore; trip wire from a previous test or 20lb fishing line may be used to lengthen the draw strings.

The tray is mounted in the Loom at a height that allows the draw strings to extend perpendicular to the tension bars.

The draw strings are then attached to the corresponding screws on the base of the Loom.

1.1.3 Hand Held Devices (Parachute Flares, Green Star Cluster, etc)

These devices are secured in a clamp made of 2 x 2 pine.

A plum bob (Furnished by the Test Officer) is used to center the devices so that the striking arm of the loom strikes both devices evenly and at an angle that is perpendicular to the floor of the BANGBOX.

The plum bob is also used to insure that the devices are aimed at the center of the burn pit in the BANGBOX floor.

1.2 Pre-ignition Checks

Insure that the safety bolts have been removed from the loom.

Connect the control relay to the Firing Line.

In the Instrumentation Building, enable the power to the initiation solenoid.

1.3 Initiation

Initiation is conducted IAW LOI 29 Section 4.

Revision: 0 Date: 31 October 1996

Prepared/Modified by: Radian International LLC

High-Volume Total Suspended Particulates (TSP) Sampling and Analysis Procedure Letter of Instruction Revision Control Sheet

Revision number	Date of change	Reason for change
0	31 October 1996	Initial revision for BangBox testing
Description of changes:		
Revision number	D-46-1	D. C.
Revision number	Date of change	Reason for change
D : (: C1		
Description of changes:		

Revision: 0 Date: 31 October 1996

Prepared/Modified by: Radian International LLC

High-Volume Total Suspended Particulates (TSP) Sampling and Analysis Procedure Letter of Instruction

Chamber:

BangBox Test Chamber

Media:

Air

Objective:

This method is used to obtain a measurement of the total mass concentration of particulate matter in the air resulting from BangBox energetics testing activities. A measured quantity of sampled air is drawn into a covered housing and through a filter during the sampling period. The filter is gravimetrically weighed (after moisture equilibration) before and after use to determine the net weight (mass) gain. The concentration of total particulate matter in the air is computed as the mass of collected particles divided by the volume of air sampled, corrected to standard conditions, and is expressed in micrograms per standard cubic meter (µg/std m³).

Pollutant:

Total suspended particulates (TSP)

Sampler:

High-volume sampler

Sampling Location:

The high-volume sampler is placed in the test chamber greater than 3 feet from the test

chamber's outer wall.

Equipment:

Pertinent sampling equipment include the following: high-volume sampler with shelter, quartz-fiber filter (20.3 × 25.4 cm), calibration orifice set, pressure transducer,

barometer, analytical balance, and a computerized Data Acquisition System (DAS).

Duration:

Two simultaneous samples will be obtained using two samplers operating simultaneously during each run. Target minimum sampling time for each run is 20 minutes.

Sampling Preparation:

Sampling preparation for TSP sample collection includes the following steps: filter handling and preparation, high-volume sampler filter loading and preparation, and air flowmeter calibration.

<u>Filter Handling and Preparation</u>. Prior to sample collection, all quartz-fiber filters that meet the requirements of 40 CFR Part 50 Appendix B-Section 7.1 are gravimetrically weighed in the laboratory to determine the baseline tare weight for calculation of aerosol weight collected. Personnel loading filters will wear clean gloves to minimize crosscontamination.

<u>High-Volume Sampler Filter Loading and Preparation</u>. The filters are placed on the high-volume sampler backup screen. The filter housing locknuts are then tightened down to ensure good contact between the gasket and the two halves of the filter holder. The filter number and filter unit position are then recorded.

<u>Air Flowmeter Calibration</u>. Each sampler will be calibrated using procedures described in 40 CFR Part 50 Appendix B before each test series.

Sampling Procedure:

After the sampling preparation procedures, operation of the high-volume sampler is begun remotely to draw a measured quantity of air through the filter. Sampling rate is continuously recorded by the DAS.

DPG LOI-101 Revision: 0

Date: 31 October 1996

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Sample Recovery: Sample recovery involves one step: high-volume sampler filter unloading and storage.

<u>High-Volume Sampler Filter Unloading and Storage</u>. Following completion of each test run, the top half of the filter unit is removed and the sampled filter is folded in half and

placed in plastic and labeled paper envelopes.

Sample Analysis: In the laboratory, TSP-containing filters are placed in desiccators to remove uncombined

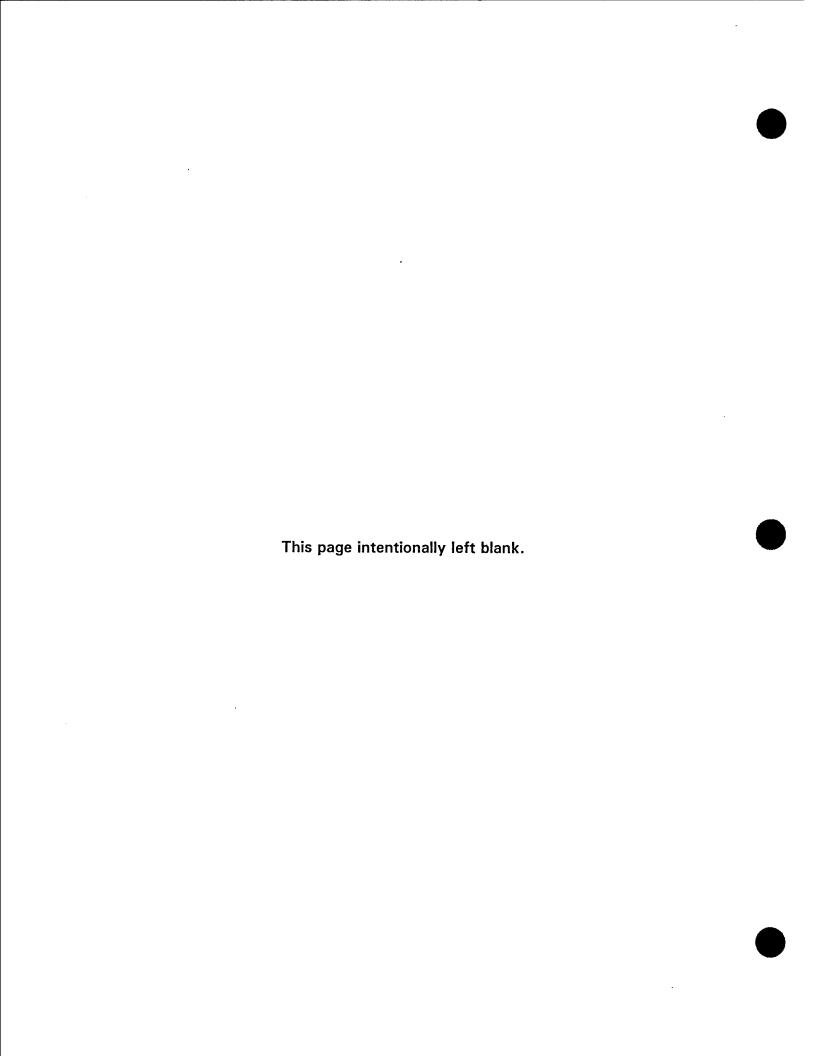
moisture. The filter is then allowed to equilibrate and weighed to the nearest milligram

until a constant final weight is obtained. This final weight is recorded.

References: Title 40 Code of Federal Regulations Part 50, Appendix B-Reference Method for the

Determination of Suspended Particulate Matter in the Atmosphere (High-Volume

Method).



Revision: 0

Date: 31 October 1996

Prepared/Modified by: Radian International LLC

PM₁₀ Sampling and Analysis Procedure Letter of Instruction Revision Control

Revision number	Date of change	Reason for change
0	31 October 1996	Initial revision for BangBox testing
Description of changes:		
Revision number	Date of change	Reason for change
Description of changes:		

Date: 31 October 1996

Prepared/Modified by: Radian International LLC

PM₁₀ Sampling and Analysis Procedure Letter of Instruction

Chamber:

BangBox Test Chamber

Media:

-

Air

Objective:

This method is used to obtain a measurement of the mass concentration of particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM₁₀) in the air resulting from BangBox energetics testing activities. A measured quantity of sampled air is drawn at a constant flow rate into a specially shaped, omnidirectional size selective inlet where the suspended particulate matter is inertially separated into one or more size fractions within the PM₁₀ size range during the sampling period. The filter is gravimetrically weighed (after moisture equilibration) before and after use to determine the net weight (mass) gain. The concentration of PM₁₀ in the air is computed as the mass of collected particles divided by the volume of air sampled, corrected to standard conditions, and is expressed in micrograms per standard cubic meter (µg/std m³).

Pollutant:

PM₁₀

Sampler:

High-volume PM₁₀ sampler

Sampling Location:

The high-volume sampler is placed in the test chamber greater than 3 feet from the test

chamber's outer wall.

Equipment:

Pertinent sampling equipment include the following: high-volume PM₁₀ sampler with shelter, quartz-fiber filter (20.3 × 25.4 cm), flow control device, filter holder, calibration orifice set, pressure transducer, barometer, analytical balance, and a computerized DAS.

Duration:

One sample will be obtained during each run. The sampler is operated until flow rate within 20% of setpoint cannot be maintained.

Sampling Preparation: Sampling preparation for PM₁₀ sample collection includes the following steps: filter handling and preparation, high-volume PM₁₀ sampler filter loading and preparation, and air flowmeter calibration.

> Filter Handling and Preparation. Prior to sample collection, all quartz-fiber filters that meet the requirements of 40 CFR Part 50 Appendix J-Section 7.2 are gravimetrically weighed in the laboratory to determine the baseline tare weight for calculation of aerosol weight collected. Personnel loading filters will wear gloves to minimize crosscontamination.

> <u>High-Volume PM₁₀ Sampler Filter Loading and Preparation</u>. The filter is placed on the PM₁₀ sampler backup screen. The filter housing locknuts are then tightened down to ensure good contact between the gasket and the two halves of the filter holder. The filter number and filter unit position are then recorded.

Air Flowmeter Calibration. Each sampler will be calibrated using procedures described in 40 CFR Part 50 Appendix J before each test series using a certified variable flow orifice calibrator.

Revision: 0

Date: 31 October 1996

Prepared/Modified by: Radian International LLC

Sampling Procedure:

After the sampling preparation procedures, operation of the high-volume PM₁₀ sampler is

begun remotely to draw a measured quantity of air through the filter. Sampling will be

stopped when a flow rate within 20% of setpoint cannot be maintained.

Sample Recovery:

Sample recovery involves one step: high-volume PM₁₀ sampler filter unloading and

storage.

<u>High-Volume PM₁₀ Sampler Filter Unloading and Storage</u>. Following completion of each test run, the top half of the filter unit is removed and the sampled filter is folded in

half and placed in plastic and labeled paper envelopes.

Sample Analysis:

In the laboratory, PM₁₀-containing filters are placed in desiccators to remove uncombined

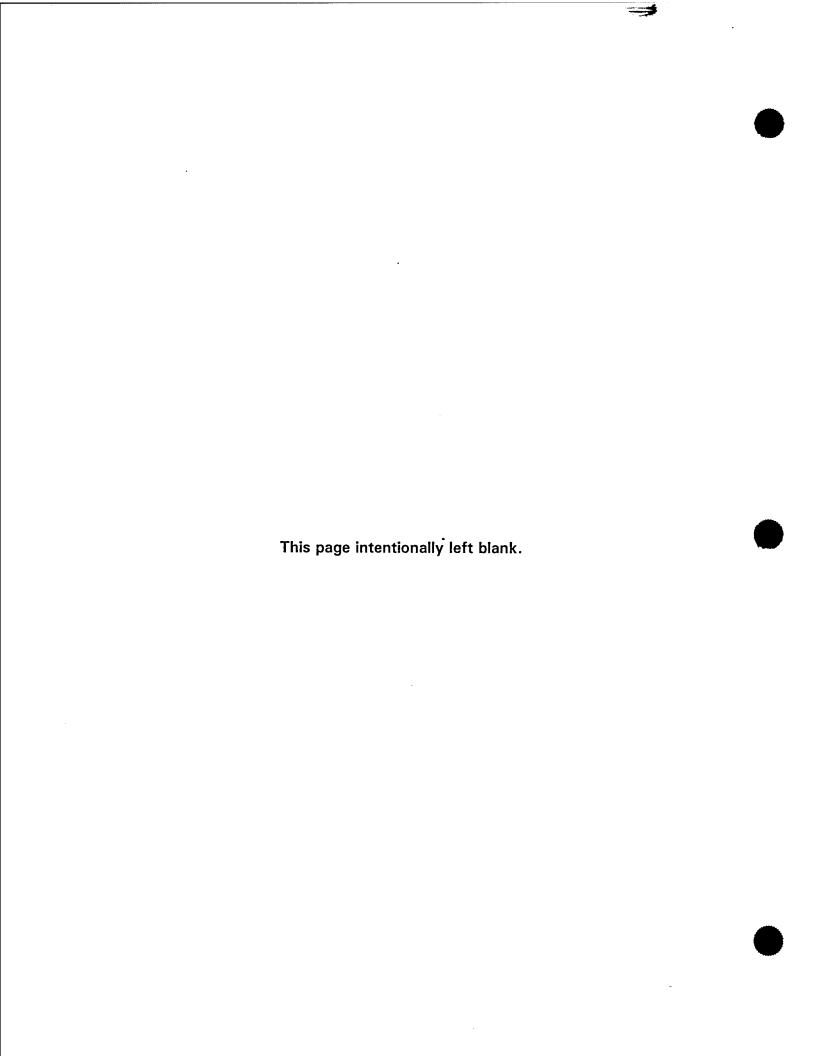
moisture. The filter is then allowed to equilibrate and weighed to the nearest milligram

until a constant final weight is obtained. The final weight is recorded.

References:

Title 40 Code of Federal Regulations Part 50, Appendix J-Reference Method for the

Determination of Particulate Matter as PM₁₀ in the Atmosphere.



Revision: 1

Date: 27 February 1998

Prepared/Modified by: Radian International LLC

Semivolatile Organic Compounds (SVOCs), Polychlorinated Biphenyls (PCBs), and Dioxins/Furans (CDD/CDF) Sampling and Analysis Procedure Letter of Instruction Revision Control

Revision number	Date of change	Reason for change
0	20 February 1998	Initial revision for BangBox testing
escription of changes:		
Revision number	Date of change	Reason for change

Description of changes: Added PCB sampling and analysis procedures to text of DPB LOI-103 and changed the title appropriately.

Revision: 1

Date: 27 February 1998

Prepared/Modified by: Radian International LLC

Semivolatile Organic Compounds (SVOCs), Polychlorinated Biphenyls (PCBs), and Dioxins/Furans (CDD/CDF) Sampling and Analysis Procedure Letter of Instruction

Chamber:

BangBox Test Chamber

Media:

Air

Objective:

This method is used to obtain a measurement of the concentration of semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), or dioxins/furans (CDD/CDF) in the air resulting from BangBox energetics testing. SVOC sampling is based on U.S. Environmental Protection Agency (EPA) Compendium Method TO-13; PCB sampling is based on EPA Compendium Method TO-4; CDD/CDF sampling is based on EPA Compendium Method TO-9. For all these methods, a measured quantity of sampled air is drawn into a high-volume housing that contains a special sampling inlet (i.e., aluminum sampling module) that is designed to hold a 100 mm diameter quartz fiber filter followed by XAD-2 resin. The mass of SVOCs and PCBs collected will be quantitatively determined by gas chromatography (GC)/mass spectrometry (MS) analysis of the sample media. The mass of CDD/CDF collected will be quantitatively determined by high resolution gas chromatography (HRGC)/high resolution mass spectrometry (HRMS).

Pollutants:

SVOCs, PCBs, and CDD/CDF

Sampler:

General Metal Works (GMW), Inc. Model PS-1 Sampler with Aluminum Sampling Module. Separate PS-1 samplers are used for SVOC, PCB, and CDD/CDF sampling.

Sampling Location:

The PS-1 samplers are placed in the test chamber greater than 3 feet from the test

chamber's outer wall.

Equipment:

Pertinent sampling equipment includes the following: Model PS-1 sampler with aluminum sampling module, quartz fiber filter (100 mm), XAD-2 resin (approximately 45 grams), polyurethane foam plugs (PUF), Teflon-coated tweezers, Ziploc bags, aluminum foil, glass jars with Teflon-lined lids, orifice calibration unit, and a computerized DAS.

Duration:

Target minimum sampling time is 20 minutes.

Sampling Preparation: Preparation for SVOC, PCB, and CDD/CDF sample collection includes the following: preparation of sampling module, sampler calibration, and loading the module and PS-1 Sampler.

> Preparation of Sampling Module. For SVOC sampling, a glass cartridge will be loaded with approximately 45 grams of XAD-2 resin. For PCB and CDD/CDF sampling, the cartridge will contain XAD-2 resin sandwiched between PUF plugs. Because of the specialized nature of XAD-2 sampling, the XAD-2 resin will be prepared for sampling before mobilization to the field. The sampling modules will be thoroughly washed with soap (Alconox or equivalent) and water and rinsed with distilled water and appropriate solvent before and after each sampling episode. After drying, each module will be wrapped in aluminum foil and placed in Ziploc bags for dust protection. The XAD-2 resin that will be used to collect SVOCs and PCBs will be obtained from the

Revision: 1 Date: 27 February 1998

Prepared/Modified by: Radian International LLC

manufacturer and re-cleaned according to the requirements of EPA Compendium Method TO-13. Personnel will wear the appropriate gloves to avoid contamination of samples.

The filters for the PS-1 sampler will be pre-cleaned, dried, and transported to the field for use in sampling. Personnel will wear the appropriate gloves to avoid contamination of samples.

For CDD/CDF sampling, the resin cartridges will be spiked in the laboratory with an isotopically labeled CDD/CDF surrogate standard solution to ensure accurate quantitative measurements. It is important to note that the PS-1 cartridges used for CDD/CDF analysis will be shipped to the field pre-spiked and loaded with XAD-2 resin that is designated for CDD/CDF sampling only.

<u>Sampler Calibration</u>. Calibration of the PS-1 samplers will be performed using an orifice calibration unit. Each PS-1 sampler will be multi-point calibrated prior to sampling.

Loading the Module and PS-1 Sampler. Open the aluminum sampling head with the small opening facing down while ensuring there is both a gasket above and below the cartridge. Use the Teflon-coated tweezers to lift the glass cartridge into the sampling module. To load the filter, loosen the three screws and pull them down. Remove the aluminum plate and ring and with the Teflon tweezers remove the thicker of the two Teflon rings. Place the 100 mm diameter quartz fiber filter, rough side up, on the second Teflon ring on top of the metal screen. Replace the thicker Teflon ring on the filter, making sure that the filter is centered, and retighten the three screws. Once the filter is loaded into the sample module, open the PS-1 sample hood, insert the sample module above the orifice of the PS-1 sampler, and close the hood and lock it down.

Sampling Procedure:

After the sampling preparation procedures, operation of the PS-1 sampler is begun remotely. Air flow through the sampler is measured by an in-line venturi with pressure transducer located immediately downstream of the sampling module. The sampling flow is measured by monitoring the pressure drop. Particulate matter is removed from the gas stream by means of the quartz fiber filter. The sample gas is passed into the XAD-2 resin adsorbent trap for collection of vapor phase SVOC, PCB, or CDD/CDF.

Sample Recovery:

Following the completion of each test run, the quartz fiber filter is removed with Teflon tweezers and placed particulate laden side up. Aluminum foil is wrapped around the trap and placed in a Ziploc bag. The resins and filters for each test run will be labeled appropriately for the analytical laboratory. Samples will be collated so that an XAD-2 trap and a filter are packed for each PS-1 sampler. Each sample is then placed into a Teflon-lined sample jar and sealed. The sample jars are shipped to the appropriate laboratory for analysis. All sample recovery will be performed in a clean and dry area, to minimize sample contamination and loss. All sample containers will be numbered and labeled. The cartridges will be solvent extracted and the extracts will be analyzed for SVOCs, PCBs, or CDD/CDF.

Sample Analysis:

In the laboratory, SVOC and PCB samples will be analyzed using GC/MS. The analysis for SVOC will follow EPA SW-846 Method 8270, and the analysis for PCB will follow EPA SW-846 Method 680. The CDD/CDF samples will be analyzed using HRGC/HRMS following EPA SW-846 Method 8290.

References:

EPA. Second Supplement to Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Methods TO-4, TO-9, and TO-13. Publication No. EPA/600/4-89/018, Atmospheric Research and Exposure Assessment Laboratory, Office of Research and Development, Research Triangle Park, NC, June 1988.

Revision: 1

Date: 27 February 1998

Prepared/Modified by: Radian International LLC

EPA. Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW-846), Methods 680, 8270, and 8290. Office of Solid Waste and Emergency Response, Washington, DC, November 1986.

Revision: 0

Date: 20 February 1998

Prepared/Modified by: Radian International LLC

Volatile Organic Compounds (VOCs) and Tracer Compounds Sampling and Analysis Procedure Letter of Instruction Revision Control

Revision number	Date of change	Reason for change
0	20 February 1998	Initial revision for BangBox testing
Description of changes:		
Revision number	Date of change	Reason for change
Description of changes:		

Volatile Organic Compounds (VOCs) and Tracer Compounds Sampling and Analysis Procedure Letter of Instruction

Chamber:

BangBox Test Chamber

Media:

Air

Objective:

This method is used to obtain a measurement of the total concentration of VOCs and a tracer compound [sulfur hexafluoride (SF₆)] in the air resulting from testing activities. The method is based on collecting air samples from energetics testing activities. The procedure is based on collecting air samples in stainless steel canisters. The VOCs are subsequently separated by gas chromatography and measured by multidetector techniques. The tracer concentration is measured by an electron capture detector.

Pollutants:

VOCs and Tracer Compounds

Samplers:

Standard EPA Compendium Method TO-12 and TO-14 SUMMA® Canisters for VOCs

and 850 mL Canisters for Tracers.

Sampling Location:

Manifold in BangBox instrumentation building

Equipment:

Pertinent sampling equipment include the following: sampling manifold, stainless steel internally electropolished canisters (6 L and 0.85 L), vacuum gauge, and pumps.

Duration:

The minimum sampling time for each VOC canister will be 10 minutes and 2 minutes for

each tracer canister.

Sampling Preparation: Pre-certified canisters, meeting the requirements of EPA Compendium Method TO-12 and TO-14 will be used to collect VOC samples. All prepared VOC and tracer canisters will be evacuated prior to shipping to the field. Each canister will be identified with a unique label. This identification is recorded prior to sampling.

Sampling Procedure:

After the sampling preparation procedures, a sample of gas is drawn through a sampling train comprised of components that regulate the rate and duration of sampling into a preevacuated canister. The 6.0 L canisters will be used for VOCs and the 0.85 L canisters will be used for tracer gases. After the gas sample is collected, the canister valve is closed.

Sample Recovery:

Following canister sampling, the canister is removed from the chamber and then transported to the appropriate analytical laboratory.

Sample Analysis:

VOCs are concentrated as the sample is passed into a cryogenically-cooled trap. The methane fraction passes through. The temperature of the sample is raised to volatilize the sample into a gas chromatograph. For total VOC analysis (TO-12), the sample is directed to a flame ionization detector and the total area under the individual peaks is integrated and reported as total nonmethane VOC. For speciated VOC and tracer

Prepared/Modified by: Radian International LLC

analysis (TO-14), a high-resolution gas chromatograph is used, and the temperature is increased through a temperature program. The compounds are eluted and quantified using multiple detectors.

References:

EPA. Second Supplement to Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Method TO-12, Method for the Determination of Non-methane Organic Compounds in Ambient Air using Cryogenic Preconcentration and Direct Flame Ionization Detection. Publication No. EPA/600/4-89/018, Atmospheric Research and Exposure Assessment Laboratory, Office of Research and Development, Research Triangle Park, NC, June 1988.

EPA. Second Supplement to Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Method TO-14, Determination of Volatile Organic Compounds in Ambient Air using SUMMA Passivated Canister Sampling and Gas Chromatographic Analysis. Publication No. EPA/600/4-89/018, Atmospheric Research and Exposure Assessment Laboratory, Office of Research and Development, Research Triangle Park, NC, June 1988.

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Revision: 0

Date: 31 October 1996 Prepared/Modified by: Radian International LLC

Metals Sampling and Analysis Procedure Letter of Instruction Revision Control

Revision number	Date of change	Reason for change
0	31 October 1996	Initial revision for BangBox testing
Description of changes:		
Revision number	Date of change	Reason for change
Description of changes:		

Revision: 0 Date: 31 October 1996

Prepared/Modified by: Radian International LLC

Metals Sampling and Analysis Procedure Letter of Instruction

Chamber:

BangBox Test Chamber

Media:

- AND

Air

Objective:

This method is used to obtain a measurement of the total mass concentration of particulate metals in the air resulting from BangBox energetics testing activities. A measured quantity of sampled air is drawn into a covered housing and through a filter during the sampling period. A fraction of the particulate matter, following determination of total suspended particulate net weight gain, is digested in nitric acid. Metals (except mercury) are quantitatively determined by inductively coupled argon plasma emission spectroscopy (ICAP). Mercury is determined by cold vapor atomic absorption spectroscopy (CVAAS). Concentrations are expressed in micrograms per standard cubic

meter (µg/std m³).

Pollutant:

Particulate Metals

Sampler:

High-volume sampler

Sampling Location:

The high-volume sampler is placed in the test chamber greater than 3 feet from the test

chamber's outer wall.

Equipment:

Pertinent sampling equipment include the following: high-volume sampler with shelter, quartz-fiber filter (20.3×25.4 cm), air flowmeter, calibration orifice set, pressure transducer, barometer, and a computerized DAS.

Duration:

Two simultaneous samples will be obtained using two samplers operating simultaneously during each run. Target minimum sampling time for each run is 20 minutes.

Sampling Preparation:

Sampling preparation for particulate metals sample collection includes the following steps: filter handling and preparation, high-volume sampler filter loading and preparation, and air flowmeter calibration.

<u>Filter Handling and Preparation</u>. All quartz-fiber filters used will meet the requirements of 40 CFR Part 50 Appendix B-Section 7.1. Personnel loading filters will wear clean gloves to minimize cross-contamination.

<u>High-Volume Sampler Filter Loading and Preparation</u>. The filters are placed on the high-volume sampler backup screen. The filter housing locknuts are then tightened down to ensure good contact between the gasket and the two halves of the filter holder. The filter number and filter unit position are then recorded.

<u>Air Flowmeter Calibration</u>. Each sampler will be calibrated using procedures described in 40 CFR Part 50 Appendix B before each test series.

Sampling Procedure:

After the sampling preparation procedures, operation of the high-volume sampler is begun remotely to draw a measured quantity of air through the filter.

Sample Recovery:

Sample recovery includes one step: high-volume sampler filter unloading and storage.

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Date: 31 October 1996

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<u>High-Volume Sampler Filter Unloading and Storage</u>. Following completion of each test run, the top half of the filter unit is removed and the sampled filter is folded in half and placed in plastic and labeled paper envelopes.

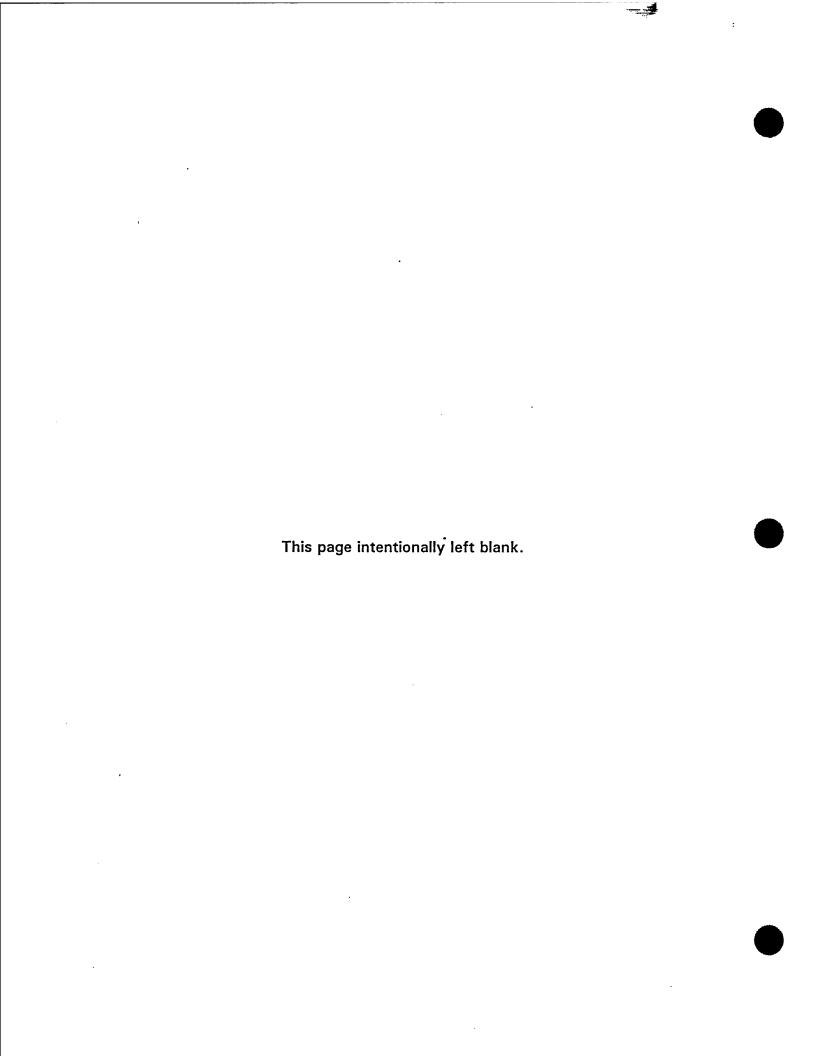
Sample Analysis:

In the laboratory, an aliquot of the TSP material will be digested using nitric acid prior to analysis. Alternatively, if insufficient material is present, the entire filter will be digested. The digestate is analyzed by CVAAS for mercury and ICAP for other metals.

References:

Title 40 CFR Part 50, Appendix B-Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere (High-Volume Method).

Title 40 CFR Part 60, Appendix A-Reference Method for the Determination of Metals Emissions from Stationary Sources (Method 29).



Revision: 0

Date: 20 February 1998

Prepared/Modified by: Radian International LLC

HCl/Cl₂ Sampling and Analysis Procedure Letter of Instruction Revision Control

Revision number	Date of change	Reason for change
0	20 February 1998	Initial revision for BangBox testing
Description of changes:		
Revision number	Date of change	Reason for change
Description of changes:		

Revision: 0

Date: 20 February 1998

Prepared/Modified by: Radian International LLC

HCI/CI, Sampling and Analysis Procedure **Letter of Instruction**

Chamber:

BangBox Test Chamber

Media:

Air

Objective:

This method is used to obtain a measurement of the concentrations of hydrogen chloride (HCl) and chlorine (Cl₂) in the air resulting from chlorine-containing energetics testing activities. A measured quantity of sampled air is drawn from the chamber and passed through a heated filter into dilute sulfuric acid and then through dilute sodium hydroxide solutions. The HCl fraction is absorbed in the sulfuric acid solution and the Cl₂ fraction in the sodium hydroxide solution. The concentrations of HCl and Cl, will be measured using ion chromatography.

Pollutant:

HCl and Cl₂

Sampler:

Sampling train based on 40 CFR Part 60, Appendix A, Method 26.

Sampling Location:

The sampling system is placed in the test chamber greater than 3 feet from the chamber's

outer wall.

Equipment:

Pertinent sampling equipment include the following: quartz-fiber filter, filter holder, two 0.1N sulfuric acid (15 mL each) impingers for HCl collection, one empty impinger for acid impinger liquid carry-over, two 0.1N sodium hydroxide (15 mL each) impingers for Cl₂ collection, one silica gel impinger, ice bath, flow controller, wash bottles, storage bottles, pump, and gas meter.

Duration:

Two sample will be obtained during each test of chlorine-containing energetics with a target sampling duration of 30 minutes.

Sampling Preparation:

Sampling preparation for HCl/Cl₂ sample collection includes the following steps: sampling train preparation and sampling flow control system calibration.

Sampling Train Preparation. Prior to sample collection, all train components, reagents, and cleaning solutions will be specially prepared to meet the requirements of 40 CFR Part 60, Appendix A, Method 26. All parts of the sampling train will be precleaned prior to sampling. Field assembly of the sampling train will take place in a clean area. A clean and inspected filter will be placed in the filter holder for particulate collection. Two sulfuric acid and two sodium hydroxide Teflon impingers will be charged with 15 mL of solution each prior to sampling.

Sampling Flow Control System Calibration. Each gas meter will be calibrated using procedures described in 40 CFR 60, Appendix A, Method 5, Section 7.2, prior to each test.

Sampling Procedure:

After the sampling preparation procedures, operation of the sampling system is begun remotely to draw a measured quantity of air through the filter into the sampling train for the test duration. Sampled air is drawn into the HCl/Cl₂ sampling train impingers. The sampling rate and gas volume are recorded manually.

Revision: 0

Date: 20 February 1998

Prepared/Modified by: Radian International LLC

Sample Recovery:

Sample recovery includes one step: filter and train recovery.

Filter and Train Recovery. Following completion of each test, the particulate filter is removed and discarded. The liquid contents of the two sulfuric acid impingers, the two sodium hydroxide impingers, and the empty impinger are placed in separate sample bottles. The impingers will each be rinsed with distilled water and the rinsate placed into their respective sample containers. All sample recovery will be performed in a clean and dry area, to minimize sample contamination and loss. All sample containers will be

numbered and labeled.

Sample Analysis:

In the laboratory, the chloride content of all solutions is measured by EPA Method 9057.

References:

Title 40 CFR Part 60, Appendix A, Method 26-Determination of Hydrogen Chloride

Emissions from Stationary Sources.